MEMOIRS OF THE BOTANICAL SURVEY OF
SOUTH AFRICA
MEMOIRS VAN DIE BOTANIESE OPNAME VAN
SUID-AFRIKA

No. 47 1984

A CATALOGUE of SOUTH AFRICAN GREEN, BROWN AND RED MARINE ALGAE

S.C. SEAGRIEF

BOTANICAL RESEARCH INSTITUTE ■ DEPARTMENT OF AGRICULTURE ■ REPUBLIC OF SOUTH AFRICA
NAVORSINGSINSTITUUT VIR PLANTKUNDE ■ DEPARTEMENT VAN LANDBOU ■ REPUBLIEK VAN SUID-AFRIKA

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A CATALOGUE of SOUTH AFRICAN GREEN, BROWN AND RED MARINE ALGAE

[redacted]

by

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ERRATA to *Mem. bot. Surv. S. Afr.* 47 (1984)

4

-0994

(1) p.1, col. 2, line 22: substitute 'coralline' for 'corraline'
(2) p.7, col. 1, line 20: substitute '*Callithamnion*' for '*Calithamnion*'
(3) p.23, col. 1, line 31: substitute 'Lamouroux' for 'Skottsberg'
(4) p.59, col. 2, line 2 from below: substitute 'från' for 'fran'
(5) p.61, col. 1, line 31: substitute '*Hildenbrandia*' for '*Hildenbrandtia*'
(6) p.61, col. 1, line 36: substitute 'YOUNG-MENG' for 'YOUNG-MEN'
(7) p.62, col. 2, line 11 from below: substitute 'FRIES' for 'FIRES'

Foreword

The marine algae of the South African coast constitute a group of great interest and variety. The seaweed *Ecklonia maxima*, which grows along our coasts, was the first plant of South African origin to be encountered and mentioned by the early voyagers. This robust seaweed grows plentifully on rocks of the southern African coast and plants detached by storms were frequently washed far out to sea to be encountered by ships approaching the Cape. Vasco da Gama in his narrative of the historic voyage to India reported: 'On Wednesday the first day of November (1497), the day of All Saints, we found many signs of land, which were seaweeds that grow along the coast'. Many other sightings are recorded. The 'trombas', the Portuguese name for *Ecklonia*, figured in the account of Cornelis de Houtman's expedition to India undertaken in 1595, is the first illustration of a South African plant recorded in literature.

The earliest preserved specimen of a South African seaweed was collected nearly 300 years ago and the earliest scientific literature on algae dates back to Linnaeus's 'Species Plantarum' first published in 1753. Since then many collections have been made but nearly three hundred years later the accumulated material still does not provide a completely adequate basis for a definitive work on these organisms. Because most of the collections made in earlier periods were sent to Europe and in more recent times to North America, it is only comparatively recently that taxonomic research undertaken by local scientists has become important. Seaweed taxonomy is complicated and in many cases experimental work will have to be undertaken to resolve problems. Some species are of considerable economic value but in spite of this the taxonomy of the group has been sadly neglected and the marine algae constitute one of the least known and studied plant groups in southern Africa. Now for the first time a comprehensive listing of taxa of southern African marine algae has been provided.

With the author we hope that the present catalogue will help to arouse interest in the rich marine algal flora of our coasts and stimulate research especially by local scientists. Perhaps the time has come to initiate a volume on the marine algae for the Flora of Southern Africa as a co-operative effort by marine algologists in this country and abroad. This catalogue provides the cornerstone on which such a volume could be built. The author is to be congratulated on producing a valuable and timely contribution to a greatly neglected field of research.

B. DE WINTER
Director: Botanical Research Institute

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ABSTRACT

The catalogue lists alphabetically the 1 567 specific names that have been applied to South African green, brown and red marine algae. Of these 547 are correct names and 1 020 synonyms. Each specific name is accompanied by details of authorship, date, journal, volume, pagination, figures and plates. Cross references allow for the recovery of any specific name whether this be a basionym, synonym or correct name. The bibliography comprises 652 references.

UITTREKSEL

Die katalogus bestaan uit 'n alfabetiese lys van die 1 567 spesiename wat aan die Suid-Afrikaanse groen-, bruin- en rooiseewiere toegeskryf is. Hiervan is 547 korrekte name en 1 020 sinonieme. Vir elke naam word die outeur, datum, joernaal, volume, bladsynommers, figure en plate aangegee. Kruisverwysings maak dit moontlik om enige spesienaam, hetsy basioniem, sinoniem of korrekte naam, na te slaan. Die bibliografie behels 652 verwysings.

Introduction

The compilation of this catalogue of the specific names that have been applied to South African green, brown and red marine algae began in 1966 at Berkeley, University of California, where I had the good fortune to spend a sabbatical year in collaboration with Professor G.F. Papenfuss and Professor P.C. Silva. These two distinguished algologists have made an immense contribution to this paper and I find it difficult adequately to express my gratitude to them for all the help and encouragement they have given me over the years.

The species are listed alphabetically regardless of whether the alga is a green, a brown or a red. Each specific name is accompanied by details of authorship, date, journal, volume, pagination, figures and plates. The use of bold type for a specific name indicates that this is the correct name for the South African species as it is presently known (the terminal date for entries is 1973)*. Synonyms are represented in italic type and are listed below the correct name with details of authorship, date and pagination. The synonyms are listed alphabetically with cross reference to the correct name. Species that have been excluded from the South African flora or records that have not been verified are also represented in italic type. It should be possible to recover from this catalogue information about any name that has been applied to a South African seaweed. Misapplied names are not listed separately but reference to them can be found by looking through the entries for the relevant genera.

Taxonomic judgements have not been made, although it seemed permissible in the case of *Lobophora variegata* (Lamouroux) Womersley, 1967, to add to the synonyms that Womersley has supplied for this taxon the synonyms given by Papenfuss, 1943, for the taxon *Pocockiella variegata* (Lamouroux) Papenfuss, 1943, which is now sunk in *Lobophora variegata* (Lamouroux) by Womersley. While a great deal of trouble has been taken to ascertain the correct synonyms for each accepted species, it is inevitable, when no recent literature has been published on a species, that errors may occur in the unverified listing of synonyms in older works such as De Toni. In these instances, for example *Dictyota naevosa* and the *Iridaea* species, I have merely indicated in the text that further synonyms are available in De Toni, but these names have not actually been included in the catalogue itself.

Certain items have been deliberately omitted. For instance, no synonomy has been given for species which have been excluded from the South African marine flora. Similarly, when two authors have given the same name to two different species, further reference is made only to the accepted name and the later homonym receives no further attention – (e.g. *Ceramium flexuosum* (Kuetzing) Grunow, 1867: 64 *non Ceramium flexuosum* C. Agardh, 1824: 141 = *Pleonosporium flexuosum* (C. Agardh) Bornet, 1892: 67). Incorrect determinations (see Silva, 1959, with regard to *Codium*) have not been listed.

In the case of the articulated coralline algae, Dr H.W. Johansen has very kindly given me permission to use his new assessment of this complicated group and to publish here some of his new combinations. Acknowledgement as to the source of the specific names has been given for each entry in the articulated corraline algae. I am most grateful to him for granting me this privilege.**

According to Barton, 1893, the earliest preserved alga from the Cape was a specimen of *Amphiroa* collected by Dr Hermann in 1672. In the subsequent 300 years, many collectors have sent their algal specimens to the great herbaria of Europe and, latterly, to North America for identification. Thus by far the majority of the type specimens of South African marine algae are housed in the herbaria located in the northern hemisphere. Similarly, most of the literature on South African seaweeds emanates from research workers in Europe and America and the earliest publication dates back as far as Linnaeus in 1753. With this fine heritage of collections and information from the past and with the increasing interest in seaweed resources, which is shared by research workers and laymen alike, it is hoped that this catalogue will stimulate research both in this country and abroad on the rich and varied benthic marine algal flora of the South African coastline.

* As the manuscript was still unpublished in 1981 the opportunity was taken to re-check the entries during a six-month study leave at the British Museum (Natural History) from October 1981 to April 1982.

** See Johansen, H.W. 1977. The articulated Corallinaceae (Rhodophyta) of South Africa: 1. *Cheilosporum* (Decaisne) Zanardini. Jl S. Afr. Bot. 43(3): 163–185.

ACKNOWLEDGEMENTS

To the Head of the Council for Scientific and Industrial Research, I offer profound thanks for the Senior Research Bursary which enabled me to spend a sabbatical year at the University of California, Berkeley, U.S.A. in 1966–1967.

It is a pleasure to acknowledge the guidance and help of the late Professor G.F. Papenfuss and of Professor P.C. Silva. Their assistance over taxonomic and nomenclatural problems has been invaluable. Dr H.W. Johansen has very kindly unravelled the articulated corallines and has permitted me to list his results and to publish some of his new combinations.

I am extremely grateful to Dr M.A. Pocock for allowing me access to her reprints, her herbarium collection at the Albany Museum, Grahamstown and to her annotated copy of the check-list of the Tyson Collection of Marine Algae by Delf & Michell.

I would like to express my thanks to present and past members of the Staff of the Department of Botany, Rhodes University, namely Professor E.S. Twyman, Dr S. K-M. Tim, Dr C.M. Breen, Dr J.P. Jessop, Dr A. Jacot Guillarmod, Dr D.A. Hendry, Dr P. Saenger and Mrs R. Bayliss for their help in various ways. I would also like to thank Dr R. Musiker, Miss A.C. Dick, Mrs A.T. Henry, Dr M. Scott and Miss S. Troughton for their assistance over the references.

I am grateful for the permission given by the late Mr C. Jacot Guillarmod, former Director of the Albany Museum and Mrs E. Brink of the Botanical Research Unit at the Albany Museum, to use the resources of the Museum. Professor E.A.C.L.E. Schelpe, Curator of the Bolus Herbarium, and Mr R. Simons and Miss F. Hewitt of the Algological Research Unit, University of Cape Town kindly allowed me access to the literature and records in their units, for which I am most grateful.

I would also like to thank Mrs L. Irvine and Mr J. Price, of the Algology section of the British Museum (Natural History), for answering my queries and for their encouragement.

To my wife, Mary, I offer my immense gratitude for her patience and support over the years.

ADDITIONAL ACKNOWLEDGEMENTS FOR 1982

I wish to thank the C.S.I.R. for a grant for a six month study leave from October 1981 to April 1982 at the British Museum (Natural History). At the British Museum I received most generous help from Mr J. Price and Dr D. John who allowed me access to their manuscripts on West African and Angolan marine algae. Dr Y. Butler kindly checked the names of the encrusting and erect corallines. Mr S. Honey and Mr I. Titley patiently answered many of my queries and Mrs L. Irvine gave timely assistance over *Peyssonnelia*.

Mr R. Simons generously let me have his findings on the genus *Trematocarpus*.

My grateful thanks go to Dr B. de Winter and Dr D.J.B. Killick of the Botanical Research Institute, Pretoria, for their helpful suggestions and encouragement.

I would also like to record my thanks to Miss Heather Kew, Department of Plant Sciences, Rhodes University, for her expert secretarial assistance.

EDITOR'S NOTE

The Catalogue is presented in exactly the same format in which it was drawn up by the compiler. No attempt has been made to bring abbreviations of literature references or author names in line with accepted usage in publications of the Botanical Research Institute, nor was it considered feasible to check details concerning nomenclature or literature references.

New Combinations

Arthrocardia anceps (Yendo) Johansen, comb. nov.
Cheilosporum anceps Yendo in J. Coll. Sc. Imp. Univ. Tokyo 16: 18, pl. 2, figs. 6–8; pl. 6, fig. 2 (1902).

Arthrocardia carinata (Kuetzing) Johansen, comb. nov.
Corallina carinata Kuetzing, Tabulae phycologicae 8: 30, pl. 61, fig. 2 h–i, k–n (1858).

Arthrocardia filicula (Lamarck) Johansen, comb. nov.
Corallina filicula Lamarck in Mém. Mus. natn. Hist. nat. Paris 2: 234 (1815). *Cheilosporum filiculum* (Lamarck) Yendo in J. Coll. Sci. Imp. Univ. Tokyo 20: 20 (1905).

Catalogue of Names

Acanthophora muscoides (Linnaeus) Bory in Duperrey, 1827–1829. *Voyage autour du monde sur La Coquille ...* n.51.
Papenfuss, 1943: 92, notes that the specimens referred to by Barton, 1893: 174, by the above name should be known as **Acanthophora orientalis** J. Agardh, 1863: 280.

Acanthophora orientalis J. Agardh, 1863. *Species genera et ordines algarum ...* 2(3): 820.
Papenfuss, 1943b. Notes that the specimens recorded by Barton, 1893: 174, as *Acanthophora muscoides* belong here.

Acetabularia caliculus Lamouroux in Quoy and Gaimard, 1824. *Voyage autour du monde. Uranie et Physicienne, Zoologie*, p.621, pl. 90, figs 6–7.

Acetabularia moebii Solms-Laubach, 1895. *Trans. Linn. Soc. Lond. Bot.* ser. 2, 5: 30, pl. 4, fig. 1.
Papenfuss and Egerod, 1957: *Phytomorphology* 7(1): 91.

Acetabularia wettsteinii Schussnig, 1930: 338.

Acetabularia wettsteinii Schussnig, 1930. *Phykologische Beiträge* 3, 79: 338, figs 1–4.

Acetabularia moebii Solms-Laubach, 1895: 30.

Acinetospora crinita (Carmichael ex Harvey in Hooker) Kernmann, 1953: 205.

Ectocarpus crinitus Carmichael ex Harvey in Hooker, 1833: 326.

Acrosorium acrospermum (J. Agardh) Kylin, 1924. *Lunds Univ. Årsskr.* N.F. Avd. 2, 20(6): 78.
Papenfuss, 1939. *Bot. Notiser* 1939: 11.

Nitophyllum acrospermum J. Agardh, 1852: 655.

Acrosorium deformatum (Suhr) Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 90.

Nitophyllum deformatum Suhr, 1841: 282.

Schizoglossum bartlingianum Kuetzing, 1849: 870 (with respect to syn. *N. deformatum* Suhr only).

Nitophyllum acrospermum J. Agardh, 1852: 655 (with respect to syn. *N. deformatum* Suhr and specimen of Suhr only).

Acrosorium maculatum (Kuetzing) Papenfuss, *Bot. Notiser* 1940: 224.

Aglaophyllum maculatum Kuetzing, 1866: 13.

Nitophyllum maculatum Grunow, 1868: 85.

Nitophyllum uncinatum var. ? *maculatum* De Toni, 1900: 651.

Acrosorium reptans (Crouan) Kylin, 1924. *Lunds. Univ. Årsskr.* N.F., Avd. 2, 20(6): 77.

Nitophyllum reptans Crouan, 1851: 365.

Acrosorium uncinatum (Turner) Kylin, 1924. *Lunds Univ. Årsskr.* N.F., Avd. 2, 20(6): 78, fig. 61.

Fucus laceratus var. ζ *uncinatus* Turner, 1808: pl. 68.

Aglaophyllum laceratum uncinatum Montagne, 1840: 60.

Cryptopleura lacerata uncinata Kuetzing, 1866: pl. 25.

Nitophyllum uncinatum (Turner) J. Agardh, 1852: 654.

Actinococcus aggregatus Schmitz, 1893. *Flora, Jena* 77: 385, pl. 7, fig. 4–7. Delf and Michell, 1921: 106 record this species as being parasitic on *Gymnogongrus* spp.

Actinotrichia fragilis (Forsskål) Boergesen 1932: 6, pl. 1, fig. 4. This species is recorded by Pocock from St. Lucia (herbarium specimen).

Aeodes digitata Schmitz, Delf & Michell (*Ann. Bolus Herb.* 3: 117, 1921) record *Aeodes digitata* Schmitz with *Halymenia palmatifida* Becker as its synonym. In a personal communication from Dr. P.C. Silva (January, 1970) he considers both names to be manuscript ones that have not been validly published.

Aeodes orbitosa (Suhr) Schmitz, 1894. *Nuova Notarisia* 5: 630.
Chiang, 1970. *Univ. Calif. Publs Bot.* 58: 15, 5–6, pl. 2b.

Iridaea orbitosa Suhr, 1840: 276.

Aeodes ulvoidea Schmitz, 1894. *Nuova Notarisia* 5: 630. Chiang, 1970: *Univ. Calif. Publs Bot.* 58: 12, pl. 2a, figs 3, 4.

Aglaophyllum laceratum uncinatum Montagne in Webb et Berthelot, 1840. *Histoire naturelle des Îles Canaries*, p. 60.

Acrosorium uncinatum (Turner) Kylin, 1924: 78.

Aglaophyllum maculatum Kuetzing, 1866. *Tabulae phycologicae* ... 16: 13, p. 34, figs d–e.

Acrosorium maculatum (Kuetzing) Papenfuss, 1940: 224.

Aglaophyllum undulatum Kuetzing, 1849. *Species algarum*, p. 868.

Polyneura venosa (Harvey) Papenfuss, 1968: 277.

Aglaozonia canariensis Sauvageau, 1905. *Bull. Stat. Biol. d'Arcachon* 8: 79.

Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss, 1943a: 467).

Aglaozonia pacifica Setchell, 1926. *Univ. Calif. Publs Bot.* 12(5): 90.

Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss, 1943: 467).

Aiolocolax pulchella Pocock, 1956. *Proc. Linn. Soc. Lond.*, Session 167, part 1: 22, pls 2–4, figs 3, 4.

Alsidium adhaerens Reinsch, 1875. *Contributiones al algologiam et fungologiam. I. Rhodophyceae.* Leipzig. p.60.
Martin and Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55(356): 53.

Alsidium ericoides Hering, 1841. *Ann. Mag. nat. Hist.* 8: 91.
Spyridia hypnoides (Bory) Papenfuss, 1968b: 281.

Amansia binderi J. Agardh, 1841. *Linnaea* 15(1): 26.
Placophora binderi (J. Agardh) J. Agardh, 1863: 1138.

Amansia glomerata C. Agardh, 1822. *Species algarum* ... 1(2): 194; 1824, *Systema algarum* ... p. 247.

Amphibolis filiformis Suhr, 1834. *Flora, Jena* 17: 737, pl. 2, fig. 13.
Caulerpa filiformis (Suhr) Hering, 1841: 91.

Amphiroa anceps (Lamarck) Decaisne, 1842. *Annls Sci. nat. Bot.* ser 2, 18: 125.
Corallina anceps Lamarck, 1815: 238.
Amphiroa dilatata Lamouroux, 1816: 299.
Amphiroa anceps f. *dilatata* (Lamouroux) Narita, 1915: 212–216. (Personal communication from H.W. Johansen).

Amphiroa anceps f. *dilatata* (Lamouroux) Narita, 1915. *J. Bot., Lond.* 53: 212–216.
Amphiroa anceps (Lamarck) Decaisne, 1842: 125.

Amphiroa beauvoisii Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p.299.
Amphiroa exilis Harvey, 1847: 95.
Amphiroa exilis var. *crassiuscula* Harvey, 1847: 95.
Amphiroa beauvoisii var. *crassiuscula* (Harvey) Yendo, 1905: 4.
Amphiroa dubia Kuetzing, 1858: 24. (Personal communication from H.W. Johansen).

Amphiroa beauvoisii var. *crassiuscula* (Harvey) Yendo, 1905b. *J. Coll. Sci. Imp. Univ. Tokyo* 20: 4.
Amphiroa beauvoisii Lamouroux, 1816: 299.

Amphiroa bowerbankii Harvey, 1847. *Nereis australis* ... p. 97, pl. 37, figs 1–6.

Amphiroa capensis Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2/2): 533.
Amphiroa involuta Kuetzing, 1858: 23.
Amphiroa cretacea f. *capensis* (Areschoug) Yendo, 1905: 10. (Personal communication from H.W. Johansen).

Amphiroa contracta Kuetzing, 1858. *Tabulae phycologicae* ... 8: 24, pl. 49, fig. 3. (An uncertain record of Barton, 1893 quoted in Delf and Michell, 1921: 119).

Amphiroa corymbosa (Lamarck) Decaisne, 1842. *Annls Sci. nat. Bot.* ser. 2, 18: 124.
Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Amphiroa cretacea f. *capensis* (Areschoug) Yendo, 1905. *J. Coll. Sci. Imp. Univ. Tokyo* 20(12): 10.
Amphiroa capensis Areschoug in J. Agardh, 1852: 533.

Amphiroa cultrata Harvey, 1847. *Nereis australis* ... p. 102, pl. 39, figs 1–3.
Cheilosporum cultratum (Harvey) Areschoug in J. Agardh, 1852: 545.

Amphiroa cultrata var. *pectinata* Kuetzing, 1838: 27, pl. 55.
Cheilosporum cultratum (Harvey) Areschoug in J. Agardh, 1852: 545.

Amphiroa dilatata Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 299.
Amphiroa anceps (Lamarck) Decaisne, 1842: 125.

Amphiroa dubia Kuetzing, 1858. *Tabulae phycologicae* ... 8: 24, pl. 49, fig. 1.
Amphiroa beauvoisii Lamouroux, 1816: 299.

Amphiroa elegans Hooker f. et Harvey, 1847. *Nereis australis* ... p. 101, pl. 38.
Cheilosporum elegans (Hooker f. et Harvey) Areschoug in J. Agardh, 1852: 546.

Amphiroa ephedraea (Lamarck) Decaisne, 1842. *Annls Sci. nat. Bot.* ser. 2, 18: 124.
Corallina ephedraea Lamarck, 1815: 238.
Amphiroa gaillonii Lamouroux, 1816: 299.
Amphiroa ephedraea var. *gaillonii* (Lamouroux) Yendo, 1905: 5.
Amphiroa poeppigii Endlicher et Diesing, 1845: 290.
Amphiroa gueinzii Harvey, 1847: 95. (Personal communication from H.W. Johansen).

Amphiroa ephedraea var. *gaillonii* (Lamouroux) Yendo, 1905b. *J. Coll. Sci. Imp. Univ. Tokyo* 20: 5.
Amphiroa ephedraea (Lamarck) Decaisne, 1842: 124.

Amphiroa exilis Harvey, 1847. *Nereis australis* ... p.95.
Amphiroa beauvoisii Lamouroux, 1816: 299.

Amphiroa exilis var. *crassiuscula* Harvey, 1847. *Nereis australis* ... p. 95.
Amphiroa beauvoisii Lamouroux, 1816: 299.

Amphiroa firma Kuetzing, 1849. *Species algarum*, p.704. (A Barton, 1893, record, see Delf & Michell, 1921: 119).
Arthrocardia filicula (Lamarck) Johansen, comb. nov., see p. 2.

Amphiroa flabellata Harvey, 1847. *Nereis australis* ... p. 101, pl. 39.
Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Amphiroa gaillonii Lamouroux, 1816. *Histoires des polypiers coralligènes flexibles* ... p. 299, pl. 11, fig. 3.
Amphiroa ephedraea (Lamarck) Decaisne, 1842: 124.

Amphiroa gueinzii Harvey, 1847. *Nereis australis* ... p. 95.
Amphiroa ephedraea (Lamarck) Decaisne, 1842: 124.

Amphiroa heterocladia Kuetzing, 1858. *Tabulae phycologicae* ... 8: 28, pl. 58, fig. 3, f–h.
Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Amphiroa involuta Kuetzing, 1858. *Tabulae phycologicae* ... 8: 23, pl. 48, fig. 2, e–g.
Amphiroa capensis Areschoug in J. Agardh, 1852: 533.

Amphiroa lamourouxiana Decaisne, 1842. *Annls Sci. nat. Bot.* ser 2, 18: 125. (A Barton record, 1896, see Delf & Michell, 1921: 119).

Cheilosporum sagittatum (Lamouroux) Areschoug in J. Agardh, 1852: 545.

Amphiroa multifida Kuetzing, 1858. *Tabulae phycologicae* ... 8: 27, pl. 56, fig. 1, a–b.

Cheilosporum cultratum (Harvey) Areschoug in J. Agardh, 1852: 545.

Amphiroa palmata (Ellis et Solander) Trevisan, 1845. *Nomenclature Alg.* 67: 34.

Arthrocardia palmata (Ellis et Solander) Areschoug in J. Agardh, 1852: 549.

Amphiroa peruana Areschoug, 1854. *Nova Acta R. Soc. Scient. upsal.* No. 41, pl. 38, fig. B. (A Stephenson, 1948, record from South Africa). (For a recent description of this alga, see Dawson, Acleto and Foldvik, 1964: 47).

Amphiroa poeppigii Endlicher et Diesing, 1845. *Bot. Ztg.* 3(17): 290.

Amphiroa ephedraea (Lamarck) Decaisne, 1842: 124.

Amphiroa prolifera (Lamouroux) Decaisne, 1842b. *Annls Sci. nat. Bot.* ser 2, 18: 125.

Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Amphiroa rigida Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 297, pl. 11, fig. 1.

Amphiroa sagittata (Lamouroux) Decaisne, 1842b: 125.

Cheilosporum sagittatum (Lamouroux) Areschoug in J. Agardh, 1852: 545.

Amphiroa stangeri Harvey, 1847. *Nereis australis* ... p. 102, pl. 39.

Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Anadyomene flabellata Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 365, pl. 14, fig. 3.

Anadyomene stellata (Wulfen) C. Agardh, 1822: 400.

Anadyomene stellata (Wulfen) C. Agardh, 1822. *Species algarum* ... 1(2): 400.

Ulva stellata Wulfen in Jacquin, 1786: 351.

Anadyomene flabellata Lamouroux, 1816: 365.

Anadyomene wrightii J.E. Gray, 1866: 48, pl. 44, fig. 5. This species is reported from Inhaca in MacNae and Kalk, 1958.

Anatheca dentata (Suhr) Papenfuss, 1940. *Bot. Notiser* 1940: 218.

Halymenia dentata Suhr, 1834: 734.

Sarcodia capensis J. Agardh, 1884: 65.

Anisocladus congestus Reinke, 1890. *Ber. dt. bot. Ges.* 8: 213; 1891, p. 32 (only as to South African material, not as to lectotype from New Zealand).

Halopteris funicularis (Montagne) Sauvageau, 1904: 393.

Anthophycus longifolius (Turner) Kuetzing, 1849. *Species algarum*: 605.

Sargassum longifolium (Turner) C. Agardh, 1820: 17.

Antithamnion densum (Suhr) Howe, 1914. *Mem. Torrey Bot. Club* 15: 151.

Papenfuss, 1968: 267–268, reports: 'Barton (1893, p. 114) on the authority of J. Agardh included the species (as *Callithamnion densum* Suhr) in her list of the marine algae of South Africa. The species, as far as is known, does not occur in South Africa.'

Antithamnionella verticillata (Suhr) Lyle, 1922. *J. Bot., Lond.* 60: 349.

Callithamnion verticillatum Suhr, 1840: 290.

Apjohnia rugulosa (Martens) G. Murray, 1891. *Trans. Linn. Soc. Lond. Bot.* ser 2, 3: 209, pl. 52, fig. 5.

Cladophora rugulosa Martens, 1866: 112.

Apoglossum binderianum Kuetzing, (no details). A Tyson herbarium specimen from Kowie.

Apoglossum ruscifolium (Turner) J. Agardh, 1898. *Species genera et ordines algarum* ... 3(3): 194.

Fucus ruscifolius Turner, 1802: 127.

Delesseria ruscifolia (Turner) Lamouroux, 1813: 124.

Aristothamnion collabens (Rudolphi) Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 268.

Asperocaulon collabens Rudolphi, 1831: 178.

Aristothamnion purpuriferum (Kuetzing) J. Agardh, 1892: 45.

Phlebothamnion purpuriferum Kuetzing, 1849: 656.

Pleonosporium purpuriferum (Kuetzing) De Toni, 1903: 1307.

Callithamnion purpuriferum (Kuetzing) J. Agardh, 1851: 59.

Phlebothamnion squarrosum Kuetzing, 1849: 659.

Callithamnion squarrosum (Kuetzing) Areschoug, 1854: 56.

Phlebothamnion compressum Kuetzing, 1864: 32.

Callithamnion compressum (Kuetzing) De Toni, 1903: 1334.

Dasya collabens sensu Barton, 1893: 175 (non J.D. Hooker et Harvey).

Aristothamnion purpuriferum (Kuetzing) J. Agardh, 1892. *Lunds Univ. Årsskr.* Afd. 2, 3(6): 45.

Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Aristothamnion tysonii Barton, 1893. *J. Bot., Lond.* 31: 204.

Pleonosporium tysonii (Barton) Barton, 1896: 195.

Arthrocardia anceps (Yendo) Johansen, comb. nov., see p. 2.

Cheilosporum anceps Yendo, 1902: 18.

Corallina anceps sensu Kuetzing, 1843, non Lamarck.

Arthrocardia attenuata Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 568. A Stephenson (1948) record for South Africa.

Arthrocardia palmata (Ellis et Solander) Areschoug in J. Agardh, 1852: 549.

Arthrocardia capensis Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2/2): 552. A Barton (1893) record; see Delf & Michell (1921: 119).

Corallina berterii Montagne ex Harvey, 1847: 103.

Arthrocardia carinata (Kuetzing) Johansen, comb. nov., see p. 2. (Record of Pocock in Macnae & Kalk (1958: 26).

Corallina carinata Kuetzing, 1858: 30.
Corallina carinata var. *oblongata* Kuetzing, 1858: 30.
Corallina gomphonemacea Kuetzing, 1858: 30.
Arthrocardia linearis Manza, 1937: 569.

Arthrocardia corymbosa (Lamarck) Decaisne, 1842. *Annls Sci. nat. Bot.* ser 2, 17: 380, pl. 17, fig. 8.
Corallina corymbosa Lamarck, 1815: 234.
Amphiroa corymbosa (Lamarck) Decaisne, 1842: 124.
Cheilosporum corymbosum (Lamarck) De Toni, 1905: 1826.
Corallina livida Lamarck, 1815: 235.
Corallina rosarium Lamarck, 1815: 234.
Corallina simplex Lamouroux, 1816: 286.
Corallina rigida Kuetzing, 1843: 388.
Corallina bifurca Kuetzing, 1858: 41.
Arthrocardia papenfussii Manza, 1937: 569. (Personal communication from H.W. Johansen, 1970).

Arthrocardia duthiae Johansen, 1969. *Univ. Calif. Publs Bot.* 49: 58.
Duthiea setchellii Manza, 1937: 48.
Duthiophycus setchellii (Manza) Tandy, 1938: 115. (Personal communication from H.W. Johansen, 1970).

Arthrocardia filicula (Lamarck) Johansen, comb. nov., see p. 2.
Corallina filicula Lamarck, 1815: 234.
Arthrocardia palmata var. *filicula* (Lamarck) Areschoug in J. Agardh, 1852: 550.
Cheilosporum palmatum var. *filiculum* (Lamarck) Yendo, 1902: 8.
Cheilosporum filiculum (Lamarck) Yendo, 1905: 20.
Amphiroa firma Kuetzing, 1849: 704.
Arthrocardia setchelliae Manza, 1937: 569.
Arthrocardia setchellii Manza, 1937: 570.

Arthrocardia flabellata (Kuetzing) Manza, 1940. *Philipp. J. Sc.* 71(3): 286.
Corallina flabellata Kuetzing, 1858: 29.
Arthrocardia gardneri Manza, 1937: 568.
Arthrocardia stephensonii Manza, 1937: 570. (Personal communication from H.W. Johansen, 1970).

Arthrocardia gardneri Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 568.
Arthrocardia flabellata (Kuetzing) Manza, 1940: 286.

Arthrocardia gomphonemacea Kuetzing, 1858. *Tabulae* phycologicae ... 30.
Arthrocardia carinata (Kuetzing) Johansen, comb. nov., see p. 2.

Arthrocardia linearis Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 569.
Arthrocardia carinata (Kuetzing) Johansen, comb. nov., see p. 2.

Arthrocardia palmata (Ellis et Solander) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2/2): 549.
Corallina palmata Ellis et Solander, 1786: 118.
Amphiroa palmata (Ellis et Solander) Trevisan, 1845: 34.
Cheilosporum palmatum (Ellis et Solander) Yendo, 1902: 192.
Jania digitata Manza, 1937: 571.
Arthrocardia attenuata Manza, 1937: 568. (Personal communication from H.W. Johansen, 1970).

Arthrocardia palmata var. *filicula* (Lamarck) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2/2): 550.
Arthrocardia filicula (Lamarck) Johansen, comb. nov., see p. 2.

Arthrocardia papenfussii Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 569.
Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Arthrocardia prolifera (Lamouroux) Decaisne, 1842a. *Annls Sci. nat. Bot.* ser 2, 17: 359.
Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Arthrocardia sagittata (Lamouroux) Decaisne, 1842a. *Annls Sci. nat. Bot.* ser 2, 17: 359.
Cheilosporum sagittatum (Lamouroux) Areschoug in J. Agardh, 1852: 545.

Arthrocardia setchelliae Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 569.
Arthrocardia filicula (Lamarck) Johansen, comb. nov., see p. 2.

Arthrocardia stephensonii Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 570.
Arthrocardia flabellata (Kuetzing) Manza, 1940: 286.

Ascocyclus hypneae Boergesen, 1920. *Dansk bot. Ark.* 3: 435, fig. 412.

Asparagopsis armata Harvey 1855: 544. *Falkenbergia rufolanosa* is considered to be the tetrasporophyte of *Asparagopsis armata.*

Asperocaulon collabens Rudolphi, 1831. *Linnaea* 6: 178.
Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Asperococcus bullosus Lamouroux, 1813. *Ann. Mus. natn. Hist. nat. Paris*: 62.

Asperococcus cancellatus Sonder in Lehmann, 1846. *Plantae Preissianae* ... 2: 156.
Hydroclathrus clathratus (C. Agardh) Howe, 1920: 590.

Asperococcus clathratus (Bory mscr.) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 75.
Hydroclathrus clathratus (C. Agardh) Howe, 1920: 590.

Asperococcus compressus Griffiths in Hooker, 1833. *British Flora* 2(1): 278.
Haloglossum compressum (Griffiths) Hamel, 1937: 225.

Avrainvillea sp. – listed from Inhaca in MacNae & Kalk, 1958.

Axillaria constricta (Harvey) Gruber, 1896. *Bibl. Bot.* 7(38): 17.
Axillariella constricta (J. Agardh) Silva, 1959: 63.

Axillariella constricta (J. Agardh) Silva, 1959. *Taxon* 8: 63.

Fucodium constrictum J. Agardh, 1848: 205.
Fucus constrictus Harvey, 1838: 394 (non *Fucus constrictus* Turner, 1811).
Axillaria constricta (Harvey) Gruber, 1896: 17.

Bachelotia antillarum (Grunow) Gerloff, 1959. *Nova Hedwigia* 1: 38.
Womersley, 1967. *Aust. J. Bot.* 15(2): 190.
Ectocarpus antillarum Grunow, 1870: 46.
Pylaiella antillarum (Grunow) De Toni, 1895: 535.
Pylaiella fulvescens (Schousboe) Bornet, 1889: 8.
Bachelotia fulvescens (Bornet) Kuckuck in Hamel, 1939: 66.

Bachelotia fulvescens (Bornet) Kuckuck in Hamel, 1939. *Phéophycées de France.* 1: 66.
Bachelotia antillarum (Grunow) Gerloff, 1959: 38.

Ballia beckeri Schmitz ex Mazza, 1911. *Nuova Notarisia* 22: 136.

Ballia sertularioides (Suhr) Papenfuss, 1940. *Bot. Notiser* 1940: 222, fig. 16.
Calithamnion sertularioides Suhr, 1840: 282.

Bangia atropurpurea (Roth) C. Agardh, 1824: 76.
Conferva atropurpurea Roth, 1806: 298.
Bangia fusco-purpurea (Dillwyn) Lyngbye, 1819: pl. 92.

Bangia ciliaris sensu Barton, 1896. *J. Bot., Lond.* 34: 459, (non *Bangia ciliaris* Carmichael in Hooker, *Brit. Fl.,* 2: 316, 1833 = *Erythrotrichia ciliaris* (Carmichael) Thuret in Le Jolis, *Alg. mar. Cherbourg*: 103, 1863, according to Papenfuss, 1951: 172).
Erythrotrichia welwitschii (Ruprecht) Batters, 1902: 55.

Bangia elegans Chauvin in Harvey, 1846–1851. *Phycologica britannica*, pl. 246.
Goniotrichum elegans (Chauvin) Zanardini 1847: 249.

Bangia fusco-purpurea (Dillwyn) Lyngbye, 1819. *Tentamen hydrophytologicae danicae* ... p. 83.
Bangia atropurpurea (Roth) C. Agardh, 1824: 76.

Bangia harveyi Areschoug, 1851. *Phyceae capenses*, p. 17.
Erythrotrichia harveyi (Areschoug) Papenfuss, 1940: 213.

Bartoniella crenata Kylin, 1924. *Lunds Univ. Årsskr.* N.F., Avd. 2, 20(6): 11.
Wagner, 1954. *Univ. Calif. Publs Bot.* 27(5): 287, figs. 17–36.
Phitymophora crenata J. Agardh, 1898: 174 (nomen nudum).

Beckerella helenae (Dickinson) Fan et Papenfuss in Fan, 1961. *Univ. Calif. Publs Bot.* 32(5): 322.
Gelidium helenae Dickinson, 1949: 565.

Beckerella pinnatifida (J. Agardh) Kylin, 1956. *Die Gattungen der Rhodophyceen*, p. 139.
Beckerella rumpii (Dickinson) Fan et Papenfuss, 1961: 322.

Beckerella rumpii (Dickinson) Fan et Papenfuss in Fan, 1961. *Univ. Calif. Publs Bot.* 32(5): 322.
Gelidium rumpii Dickinson, 1949: 565.
Ptilophora pinnatifida J. Agardh, 1884: 79.
Beckerella pinnatifida (J. Agardh) Kylin, 1956: 139.

Bifurcaria brassicaeformis (Kuetzing) Barton, 1893. *J. Bot., Lond.* 31: 82.
Pycnophycus brassicaeformis Kuetzing, 1860: 9.

Bifurcaria laevigatus sensu Barton, 1893. *J. Bot., Lond.* 31: 82. Misidentification for **Bifurcariopsis capensis** (Areschoug) Papenfuss, 1940: 212.

Bifurcaria tuberculatus sensu Barton – See Delf and Michell, 1921: 99. Misidentification for **Bifurcariopsis capensis** (Areschoug) Papenfuss, 1940: 212.

Bifurcariopsis capensis (Areschoug) Papenfuss, 1940. *Bot. Notiser* 1940: 212.
Fucodium capense Areschoug, 1854: 339.
Fucodium tuberculatum var. *dumosa* J. Agardh, 1848: 205.
Fucus capensis Kuetzing, 1860: 7.
Pelvetia capensis De Toni, 1895: 215.
Pycnophycus laevigatus Kuetzing, 1860: 9.
Bifurcaria laevigatus sensu Barton, 1893: 82.
Bifurcaria tuberculatus sensu Barton (see Delf and Michell, 1921: 99).

Bindera cupressina Harvey in Kuetzing, 1862. *Tabulae phycologicae* ... 12: pl. 53 (tetrasporif.).
Spyridia cupressina (Harvey) Kuetzing, 1849: 668.

Bindera insignis J. Agardh, 1841. *Linnaea* 15: 37.
Spyridia hypnoides (Bory) Papenfuss, 1968: 281.

Blidingia minima (Naegeli ex Kuetzing) Kylin, 1947. *K. fisiogr. Sällsk. Lund Förh.* 17(17): 8.
Enteromorpha micrococca Kuetzing, 1856: 11.
Enteromorpha minima Naegeli ex Kuetzing, 1849: 482.

Blossevillea arabica Kuetzing, 1849. *Species algarum*, p. 630.
Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Boodlea composita (Harvey) Brand, 1904, 187, listed from Inhaca in MacNae and Kalk, 1958.

Boodlea montagnei (Harvey ex J. E. Gray) Egerod, 1952. *Univ. Calif. Publs Bot.* 25(5): 332.
Papenfuss and Egerod, 1957. *Phytomorphology* 7(1): 83.
Microdictyon montagnei Harvey ex J.E. Gray, 1866: 69.
Boodlea paradoxa Reinbold, 1905: 148.

Boodlea paradoxa Reinbold, 1905. *Nuova Notarisia* 16: 148.
Boodlea montagnei (Harvey ex J.E. Gray) Egerod, 1952: 332.

Boodleopsis pusilla (Collins) Taylor, Joly and Bernatowicz, 1953. *Mich. Acad. Sci. Arts Letters* 38: 105, pl. 1–3, listed from Inhaca in MacNae & Kalk (1958).

Bornetella sp., herbarium specimen from St. Lucia, in Pocock Herbarium, Albany Museum.

Bostrychia binderi Harvey, 1847. *Nereis australis* ... p. 68, pl. 28.

Bostrychia binderi f. **terrestre** (J. Agardh) Post, 1936. *Revue algol.* 9: 32.

Bostrychia mixta Hooker f. et Harvey, 1845. *J. Bot., Lond.* 4: 270.

Bostrychia moritziana (Sonder in Kuetzing) J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 862, (as *B. moriziana*).

Polysiphonia ? moritziana Sonder in Kuetzing, 1849: 838.

Bostrychia radicans (Montagne) Montagne, 1850. *Cryptogamia Guyanensis* ... p. 286.

Rhodomela radicans Montagne, 1840: 199, pl. 5, fig. 3.

Bostrychia scorpioides (Gmelin) Montagne, 1845. *Botanique Plantes Cellulaires*, p. 39.

Post, 1936. *Revue algol.* 9: 34.

Fucus scorpioides Gmelin, 1768: 39.

Bostrychia simpliciuscula Harvey ex J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 854.

Papenfuss, 1943: 91, comments that 'This species was reported from South Africa by Post (1936) under the name of *Bostrychia tenuis* f. *simpliciuscula*. The procedure whereby Post reduces the original species, *B. simpliciuscula*, to a form under a species, *B. tenuis*, described as new by her is, however, not in conformity with Article 56 of the International Rules of Botanical Nomenclature (1935)'.

Bostrychia tangatensis Post, 1939. *Arch. Protistenk.* 92: 152.

Bostrychia tenella (Vahl) J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 869.

Fucus tenellus Vahl, 1802: 45.

Bostrychia tenuis f. *simpliciuscula* (Harvey ex J. Agardh) Post, 1936. *Revue algol.* 9: 23. (See Papenfuss, 1943: 91, for comment on this taxon as delimited by Post).

Bostrychia simpliciuscula Harvey ex J. Agardh, 1863: 854.

Botryocarpa prolifera Greville, 1830. *Algae britannicae* ... p. xlix.

Wagner, 1954. *Univ. Calif. Publs Bot.* 27(5): 295, figs. 58–73.

Botryocladia beckeriana (Holmes) Papenfuss, 1958. *Taxon* 7(4): 107.

Myrioglossa beckeriana Holmes, 1894: 341.

Myriophylla beckeriana Holmes, 1894: 341.

Botryocladia madagascariensis G. Feldmann, 1945. *Bull. Soc. Hist. nat. Afr. N.* 35: 57, figs. 3–5. According to a personal communication (1970) from G.F. Papenfuss, all old South African records of *Botryocladia uvaria* (Wulfen) Kylin should be known as **Botryocladia madagascariensis** G. Feldmann, as *B. uvaria* is not a South African species.

Botryocladia uvaria (Wulfen) Kylin, 1931. *Lunds Univ. Årsskr.* N.F., Avd. 2, 27(11): 17. According to a personal communication (1970) from G.F. Papenfuss this species does not belong to South Africa and all old records of *Botryocladia uvaria* (Wulfen) Kylin from South Africa should be known as **Botryocladia madagascariensis** G. Feldmann, 1945 57.

Botryoglossum platycarpum (Turner) Kuetzing, 1843. *Phycologia generalis* ... p. 446.

Wagner, 1954. *Univ. Calif. Publs Bot.* 27(5): 325, figs. 200–222.

Fucus platycarpus Turner, 1811: pl. 144.

Nitophyllum platycarpum (Turner) J. Agardh, 1872: 51.

Brachycladia marginata f. *diesingiana* (Zanardini) De Toni, 1897. *Sylloge algarum* ... 4: 110.

Galaxaura diesingiana Zanardini, 1846: 51.

Bryocladia densa Saenger, 1973. *Nova Hedwigia* 24: 19–21, figs. 1–8.

Bryopsis africana Areschoug, 1851. *Phyceae capenses,* p. 5.

Bryopsis caespitosa Suhr ex Kuetzing, 1849. *Species algarum*, p. 490.

Bryopsis cupressina Lamouroux, 1809. *Nouv. Bull. Sci. Soc. Philomath. Paris* 1(2): 333. A Barton (1893) record.

Bryopsis flanaganii Barton, 1895. *J. Bot., Lond.* 33: 162, pl. 349, figs. 1–2.

Bryopsis myosuroides Kuetzing, 1856. *Tabulae phycologicae* ... 6: 27, pl. 77, fig. 1.

Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(9): 13, fig. 6 E–G, pl. 3, fig. 6.

Bryopsis setacea Hering, 1841: 91.

Bryopsis pachynema Martens, 1866. *Die preussichen Expedition nach Ost-Asien.* Berlin. Bot. 1: 24, pl. 4, fig. 2.

Valoniopsis pachynema (Martens) Boergesen, 1934: 10.

Bryopsis plumosa (Hudson) C. Agardh, 1822. *Species algarum* ... 1(2): 448.

Ulva plumosa Hudson, 1778: 571.

Bryopsis pusilla Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(9): 11, fig. 6 a–d, pl. 3, fig. 8. According to G.F. Papenfuss (personal communication 1970), this name should disappear from the literature as it refers to a juvenile form of *Codium*.

Bryopsis setacea Hering, 1841. *Ann. Mag. nat. Hist.* 8: 91.

Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 80.

Bryopsis myosuroides Kuetzing, 1856: 27.

Bryopsis tenuis Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(9): 13, fig. 6, h–i, pl. 3, fig. 7.

Calliblepharis beckeri – see Delf and Michell (1921: 108). Nomen.

Calliblepharis fimbriata (C. Agardh) Kuetzing, 1843. *Phycologia generalis* ... p. 404.

Sphaerococcus fimbriatus C. Agardh, 1822: 299.

Callithamniella capensis Simons, 1970. *Div. Sea Fisheries Investig. Report* No. 88: 4, figs. 5 and 6.

Callithamnion compressum (Kuetzing) De Toni, 1903. *Sylloge algarum* ... 4: 1334.

Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Callithamnion constrictum Hering in Krauss, 1846. *Flora, Jena* 29: 212. A Barton (1893) record.

Callithamnion densum Suhr, 1840: 281, see Papenfuss, 1968: 267, for comment on this species.

Callithamnion elegans Schousboe ex C. Agardh, 1828. *Species algarum* ... 2: 162.

Gymnothamnion elegans (Schousboe ex C. Agardh) J. Agardh, 1892: 27.

Callithamnion gracile Hooker f. et Harvey in Hooker, 1845. *Flora antarct.* 1: 191, pl. 78, fig. 1.

Papenfuss (1952: 177) excludes this species from the flora of South Africa.

Callithamnion humile Kuetzing, 1849. *Species algarum*, p. 639. A Barton (1893) record.

Callithamnion pennatum Harvey mscr.

Pleonosporium harveyanum (J. Agardh) De Toni, 1903. 4: 1309.

Callithamnion purpuriferum (Kuetzing) J. Agardh, 1851. *Species genera et ordines algarum* ... p. 59.

Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Callithamnion purpuriferum Harvey, 1838. *Genera of South African Plants*, 1st Ed., p. 403.

Wrangelia purpurifera (Harvey) J. Agardh, 1863: 707.

Callithamnion sertularioides Suhr, 1840. *Flora, Jena* 23: 282.

Ballia sertularioides (Suhr) Papenfuss, 1940: 222.

Callithamnion squarrosum (Kuetzing) Areschoug, 1854. *Phyceae extraeuropaeae exsiccatae*, No. 56.

Aristothamnion collabens (Rudolphi) Papenfuss 1968: 268.

Callithamnion striatulum Suhr, 1840. *Flora, Jena* 23: 292.

Callithamnion stuposum Suhr, 1840. *Flora, Jena* 23: 293.

Callithamnion variegatum Suhr, 1840. *Flora, Jena* 23: 289. A Barton (1893) record.

Callithamnion verticillatum Suhr, 1840. *Flora, Jena* 23: 290.

Antithamnionella verticillata (Suhr) Lyle, 1922: 349.

Callophycus africanus (Schmitz) Hewitt, 1960. *Univ. Calif. Publs Bot.* 32(3): 205, pls. 27–29, figs. 16–23.

Thysanocladia africana Schmitz, 1894: 201.

Gelidium serratum Kuetzing, 1868: 22.

Callophyllis discigera (J. Agardh) J. Agardh, 1847. *K. svenska Vet.-Akad. Förh.* 5: 13.

Thamnophyllis discigera (J. Agardh) Norris, 1964: 110.

Callophyllis fastigiata (J. Agardh) J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 229. This species was recorded by Barton (1893: 141) from South Africa but Papenfuss (1943: 85) excludes it from the South African seaweed flora.

Callophyllis hombroniana (Montagne) J. Agardh, 1876: 232, is reported in Delf and Michell (1921: 106) from Waterloo Bay. Unconfirmed record.

Callophyllis laciniata (Hudson) Kuetzing, 1843: 401, is reported by Barton, 1893 (see Delf & Michell, 1921: 106) from 'Batterie Amsterdam'. Unconfirmed record.

Callophyllis variegata (Bory) Kuetzing, 1843. *Phycologia generalis* ... p. 44, pl. 10.

Norris, 1957. *Univ. Calif. Publs Bot.* 28(5): 280, pl. 35; figs. 8 a–b; 1964. *Botanica mar.* 7(1–4): 124, pl. 10.

Halymenia variegata Bory, 1829: 179.

Callymenia capensis (Kuetzing) J. Agardh, 1892. *Analecta algologica* 3: 67. This species is reported from South Africa in De Toni, 1897: 301, but, as it is not mentioned at all by later authors, it is included here provisionally. A specimen exists in the Tyson herbarium collection.

Callymenia dentata J. Agardh, 1847: 93, pl. 7, is reported in Delf & Michell (1921: 106) from Three Anchor Bay, Great Kei mouth, also Cape Agulhas and Algoa Bay.

Callymenia harveyana J. Agardh, 1844: 40, is reported in Delf & Michell (1921: 107) from Table Bay and Cape Point.

Pugetia harveyana (J. Agardh) Norris, 1964: 119.

Callymenia schizophylla Harvey is reported in Delf & Michell (1921: 106).

Kallymenia schizophylla J. Agardh, 1848: 48.

Calocladia suhrii J. Agardh, 1841. *Linnaea* 15: 21.

Delisea flaccida (Suhr) Papenfuss, 1940: 214.

Caloglossa leprieurii (Montagne) J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 499.

Papenfuss, 1961. *Phycologia* 1(1): 8–31, figs. 1–30.

Delesseria leprieurii Montagne, 1842: 196.

Caloglossa leprieurii (Montagne) J. Agardh f. **typica** Post, 1939. *Arch. Protistenk.* 93: 32.

Capraella elegans (Hering) J. De Toni, 1936. *Not. nomencl. alg.* p. 7.

Martensia elegans Hering, 1841: 92.

Carpoblepharis capensis Kuetzing, 1843. *Phycologia generalis* ... p. 449.

Carpoblepharis flaccida (C. Agardh) Kuetzing, 1849: 690.

Carpoblepharis densa Kuetzing, 1843. *Phycologia generalis* ... p. 449.

Carpoblepharis flaccida (C. Agardh) Kuetzing, 1849: 690.

Carpoblepharis flaccida (C. Agardh) Kuetzing, 1849. *Species algarum*, p. 690.

Hommersand, 1963. *Univ. Calif. Publs Bot.* 35(2): 196, figs. 11 a–f, 12 a–d, 13 a–e, 14 a–c.

Ptilota flaccida C. Agardh, 1822: 388.

Fucus flaccidus Turner, 1808: pl. 61 (nom. illegit.).

Carpoblepharis capensis Kuetzing, 1843: 449.

Carpoblepharis densa Kuetzing, 1843: 449.

Carpoblepharis flaccida (Turner) Kuetzing, 1849: 690

Carpoblepharis flaccida var. *capensis* Kuetzing, 1849: 690.

Carpoblepharis flaccida var. *densa* Kuetzing, 1849: 690.

Carpoblepharis flaccida (Turner) Kuetzing, 1849. *Species algarum* p. 690.

Carpoblepharis flaccida (C. Agardh) Kuetzing, 1849: 690. (See Hommersand, 1963: 196).

Carpoblepharis flaccida var. *capensis* Kuetzing, 1849. *Species algarum*, p. 690.

Carpoblepharis flaccida (C. Agardh) Kuetzing, 1849: 690.

Carpoblepharis flaccida var. *densa* Kuetzing, 1849. *Species algarum*, p. 690.

Carpoblepharis flaccida (C. Agardh) Kuetzing, 1849: 690.

Carpoblepharis minima Barton, 1893. *J. Bot., Lond.* 31: 114.

Hommersand, 1963. *Univ. Calif. Publs Bot.* 35(2): 196.

Carpoblepharis pinnatifolia Kuetzing, 1847. *Bot. Ztg.* 5: 1; 1849. *Species algarum*, p. 691; 1862. *Tabulae phycologicae* ... pl. 60, figs. d–e.

Dasyopsis pinnatifolia (Suhr) Schmitz, 1893: 231.

Carpoglossum constrictum (Harvey) Kuetzing, 1847. *Bot. Ztg.* 5(4): 53; 1849: 591.

Fucus constrictus Harvey, 1838: 394.

Carpomitra chytraphora Kuetzing, 1859. *Tabulae phycologicae* ... 9: 37, pl. 89, fig. 2.

Carpomitra filiformis (Suhr) Papenfuss, 1943: 82.

Carpomitra filiformis (Suhr) Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 82.

Chytraphora filiformis Suhr, 1834: 721.

Carpomitra chytraphora Kuetzing, 1859: 37.

Carpomitra longicarpa Simons, 1967. *Bothalia* 9(2): 357.

Carpopeltis beckeri Schmitz, a record of Delf & Michell (1921: 118). A nomen nudum according to Papenfuss (personal communication 1970).

Carpopeltis maillardii (Montagne et Millardet) Chiang, 1970. *Univ. Calif. Publs Bot.* 58: 68.

Phyllophora maillardii Montagne et Millardet, 1862: 8.

Carpopeltis rigida (Harvey ex J. Agardh) Schmitz, 1895: 168.

Cryptonemia rigida Harvey ex J. Agardh, 1876: 163.

Suhria (?) zollingeri sensu Grunow, 1867: 82 (pro parte, Chiang, 1970: 68).

Carpopeltis rigida (Harvey) Schmitz, 1895. *Bot. Jb.* 21: 168.

Carpopeltis maillardii (Montagne et Millardet) Chiang, 1970: 68.

Carpophyllum ? longifolium (Turner) De Toni, 1895. *Sylloge Algarum* 3: 123.

Sargassum longifolium (Turner) C. Agardh, 1820: 17.

Carpophyllum scalare Suhr, 1840. *Flora, Jena* 23: 257.

Contarinia australis Endlicher et Diesing, 1845: 289.

Oerstedtia scalaris Trevisan, 1848.

Carpophyllum serratum Suhr, 1840. *Flora, Jena* 23: 258.

Vidalia serrata (Suhr) J. Agardh, 1863: 1125.

Carradoria complanata (C. Agardh) Martius, 1833. *Flora brasiliensis*, p. 16.

Tayloriella virgata (C. Agardh) Papenfuss, 1940: 14.

Carradoria virgata (C. Agardh) Kylin, 1956. *Die Gattungen der Rhodophyceen*, p. 503.

Hutchinsia virgata C. Agardh, 1824: 157.

Carradoria complanata (C. Agardh) Martius, 1833: 16.

Hutchinsia complanata C. Agardh, 1824: 157.

Polysiphonia virgata (C. Agardh) Sprengel, 1827: 350.

Tayloriella virgata (C. Agardh) Papenfuss, 1940: 14. According to P.C. Silva (personal communication 1970) the name *Carradoria* is illegitimate. See Index Nominum Genericorum Plantarum, 1: 294.

Catenella caespitosa (Withering) L. Irvine in Parke & Dixon, 1976: 590. Also see Dixon & Irvine, 1977: 190.

Ulva caespitosa Withering, 1776: 735.

Fucus repens Lightfoot, 1777: 961.

Catenella repens (Lightfoot) Batters, 1902: 69.

Fucus opuntia Goodenough et Woodward, 1797: 219 nom illeg.

Catenella opuntia (Goodenough et Woodward) Greville 1830: 166 nom illeg.

Catenella opuntia (Goodenough et Woodward) Greville, 1830. *Algae britannicae*, p. 166, pl. 17. nom. illeg.

Catenella caespitosa (Withering) L. Irvine in Parke et Dixon, 1976: 590.

Catenella repens (Lightfoot) Batters, 1902. *J. Bot., Lond.* 40 (Suppt): 69.

Papenfuss, 1947. *Madroño* 9(1): 12.

Catenella caespitosa (Withering) L. Irvine in Parke & Dixon 1976: 590.

Catenella subumbellata Tseng, 1942. *J. Wash. Acad. Sci.* 32(5): 142–146.

Caulacanthus divaricatus (Suhr) Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 86.

Caulacanthus ustulatus (Turner) Kuetzing, 1843: 395.

Caulacanthus ustulatus (Turner) Kuetzing, 1843. *Phycologia generalis*, p. 395.

Searles, 1968. *Univ. Calif. Publs Bot.* 43: 46, pl. 10a, figs 19–21. See Index Nominum Genericorum Plantarum 1: 305.

Fucus acicularis var. *ustulatus* Turner, 1809: 143.

Fucus ustulatus Mertens in Montagne, 1846–1849.

Laurencia divaricata Suhr, 1840: 265.

Caulacanthus divaricata (Suhr) Papenfuss, 1943: 86.

(*Rhodomela botryocarpa* sensu Delf & Michell, 1921: 114 – a misidentification).

Caulerpa ambigua Okamura, 1897. *Bot. Mag., Tokyo* 11: 4, pl. 1, figs. 3–12.

Papenfuss, 1951. *Jl S. Afr. Bot.* 17(4): 167.

Caulerpa anceps Harvey ex J. Agardh, 1872. *Lunds Univ. Årsskr.* Afd. 2, 9(8): 9.

Caulerpa brachypus Harvey, 1859: 333.

Caulerpa bartoniae G. Murray, 1896. *J. Bot., Lond.* 34: 177, fig. 1.

Caulerpa brachypus Harvey, 1859. *Proc. Am. Acad. Arts Sci.* 4: 333.

Papenfuss and Egerod, 1957. *Phytomorphology* 7 (1): 86.

Caulerpa parvifolia Harvey, 1860: pl. 172.

Caulerpa anceps Harvey ex J. Agardh, 1872: 9.

Caulerpa stahlii Weber-van Bosse, 1898: 282.

Caulerpa simplex Levring, 1938: 13.

Caulerpa mauritiana Boergesen, 1940: 45.
Caulerpa brachypus var. *mauritiana* (Boergesen) Boergesen, 1948: 32.
Caulerpa brachypus var. *mauritiana* f. *exposita* Boergesen, 1951: 8.

Caulerpa brachypus var. *mauritiana* (Boergesen) Boergesen, 1948. *K. danske Vidensk. Selsk. Biol. Meddel.* 20(12): 32.
Caulerpa brachypus, Harvey, 1859: 333.

Caulerpa brachypus var. *mauritiana* f. *exposita* Boergesen, 1951. *K. danske Vidensk. Selsk. Biol. Meddel.* 18(16): 8, fig. 3.
Caulerpa brachypus Harvey, 1859: 333.

Caulerpa chemnitzia (Esper) Lamouroux, 1809. *Nouv. Bull. Sci. Soc. Philomath.* 1(20): 332.
Caulerpa racemosa (Forsskål) J. Agardh var. **turbinata** (J. Agardh) Eubank, 1946: 420.

Caulerpa clavifera Turner) C. Agardh, 1822. *Species algarum* ... 1(2): 437.
Caulerpa racemosa (Forsskål) J. Agardh var. **racemosa** (see Papenfuss and Egerod, 1957: 88).

Caulerpa clavifera (Turner) C. Agardh var. *turbinata* J. Agardh, 1837. *Mus. Senckenberg, Abhandl. Gebiete Beschrieb. Naturgeschich.* 2: 173.
Caulerpa racemosa (Forsskål) J. Agardh var. **turbinata** (J. Agardh) Eubank, 1946: 420.

Caulerpa clavifera var. *uvifera* C. Agardh, 1822. *Species algarum* ... 1(2): 438.
Caulerpa racemosa (Forsskål) J. Agardh var. **racemosa** (see Papenfuss and Egerod, 1957: 88).

Caulerpa crassifolia (C. Agardh) J. Agardh, 1872. *Lunds Univ. Årsskr.* Afr. 2, 9(8): 13.
Caulerpa mexicana Sonder ex Kuetzing, 1849: 496.

Caulerpa cupressoides (West ex Vahl) C. Agardh var. **turneri** Weber-van Bosse, 1898. *Ann. Jard. Bot. Buitenzorg*, 15: 330, pl. 27, fig. 4.
Fucus cupressoides West ex Vahl, 1820: 38.

Caulerpa filiformis (Suhr) Hering, 1841. *Ann. Mag. nat. Hist.* 8: 91.
Papenfuss, 1940. *Bot. Notiser* 1940: 201.
Amphibolis filiformis Suhr, 1834: 737.
Caulerpa ligulata Harvey ex J. Agardh, 1872: 10.
Caulerpa flagelliformis f. *typica* (in part) and f. *ligulata* Weber-van Bosse, 1898: 274.

Caulerpa flagelliformis f. *typica* (in part) and f. *ligulata* Weber-van Bosse, 1898. *Ann. Jard. bot. Buitenz.* 15: 274, pl. 24.
Caulerpa filiformis (Suhr) Hering, 1841: 91.

Caulerpa harveyana Kuetzing, 1857. *Tabulae phycologicae* ... p. 3, pl. 5, fig. 3.
Caulerpa mexicana Sonder ex Kuetzing, 1849: 496.

Caulerpa holmesiana Murray, 1891. *Trans. Linn. Soc. Lond. Bot.* ser. 2, 3: 208, pl. 52, figs. 1–2.

Caulerpa lanuginosa J. Agardh, 1872. *Lunds Univ. Årsskr.* Afr. 2, 9(8): 28.
Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 168, reported this species under the name of *Caulerpa selago* – see Papenfuss and Egerod, 1957: 87.
Caulerpa lycopodium Harvey, 1858: 19.

Caulerpa lentillifera J. Agardh, 1837. *Mus. Senckenberg, Abhandl. Gebeite Beschrieb. Naturgeschich.* 2: 173.
Papenfuss and Egerod, 1957. *Phytomorphology*, 7(1): 87.

Caulerpa ligulata Harvey ex J. Agardh, 1872. *Lunds Univ. Årsskr.* Afr. 2, 9(8): 10.
Caulerpa filiformis (Suhr) Hering, 1841: 91.

Caulerpa lycopodium Harvey, 1858. *Phycologia australica*, p. 19, pl. 37B.
Caulerpa lanuginosa J. Agardh, 1872: 28.

Caulerpa mauritiana Boergesen, 1940. *K. danske Vidensk. Selsk. Biol. Meddel.* 15(4): 45, pl. 3.
Caulerpa brachypus Harvey, 1859: 333.

Caulerpa mexicana Sonder ex Kuetzing, 1849. *Species algarum*, p. 496.
Papenfuss, 1956. *Jl S. Afr. Bot.* 22(2): 65.
Caulerpa harveyana Kuetzing, 1857: 3.
Caulerpa crassifolia (C. Agardh) J. Agardh, 1872: 13.
Caulerpa taxifolia (Vahl) C. Agardh *β crassifolia* C. Agardh, 1822: 436.
Caulerpa pinnata sensu Weber-van Bosse, 1898: 289 [non *Fucus pinnatus* Linnaeus f., 1781: 452; cf. Howe, 1905: 574].

Caulerpa parvifolia Harvey, 1860. *Phycologia australica*, pl. 172.
Caulerpa brachypus Harvey, 1859: 333.

Caulerpa peltata Lamouroux, 1809. *Nouv. Bull. sci. Soc. Philomath., Paris* 1(20): 332.
Caulerpa racemosa (Forsskål) J. Agardh var. **peltata** (Lamouroux) Eubank, 1946: 421.

Caulerpa pinnata sensu Weber-van Bosse, 1898. *Ann. Jard. bot. Buitenz.* 15: 289 [non *Fucus pinnatus* Linnaeus f., 1781, p. 452].
Caulerpa mexicana Sonder ex Kuetzing, 1849: 496.

Caulerpa plumaris J. Agardh, *Species, genera et ordines algarum*, 1851: 436. A Barton (1893) record.

Caulerpa racemosa (Forsskål) J. Agardh, 1872. *Lunds Univ. Årsskr.* Afr. 2, 9(8): 35.
Fucus racemosus Forsskål, 1775: 191.

Caulerpa racemosa var. *chemnitzia* (Esper) Weber-van Bosse, 1898. *Ann. Jard. bot. Buitenz.* 15: 370.
Caulerpa racemosa (Forsskål) J. Agardh var. **turbinata** (J. Agardh) Eubank, 1946: 420.

Caulerpa racemosa var. *clavifera* (Turner) Weber-van Bosse, 1898. *Ann. Jard. bot. Buitenz.* 15: 361
Caulerpa racemosa (Forsskål) J. Agardh var. rac
(see Papenfuss and Egerod, 1957: 88).

Caulerpa racemosa var. *clavifera* f. *macrophysa* Weber-van Bosse, listed from Inhaca in MacNae & Kalk (1958) also in herbarium of M.A. Pocock.

Caulerpa racemosa (Forsskål) J. Agardh var. **peltata** (Lamouroux) Eubank, 1946. *Univ. Calif. Publs Bot.* 18(18): 421, fig. 2 r–s.
Papenfuss and Egerod, 1957. *Phytomorphology* 7 (1): 88.
Caulerpa peltata Lamouroux, 1809: 332.

Caulerpa racemosa (Forsskål) J. Agardh var. **racemosa**, see Papenfuss and Egerod, 1957. *Phytomorphology* 7(1): 88.

Caulerpa clavifera (Turner) C. Agardh, 1822: 437.
Caulerpa racemosa var. *clavifera* (Turner) Weber-van Bosse, 1898: 361.
Fucus clavifer Turner, 1808: 126.
Caulerpa racemosa var. *uvifera* (C. Agardh) J. Agardh, 1872: 35.
Caulerpa clavifera var. *uvifera* C. Agardh, 1822: 438.
Fucus uvifer Turner, 1819: 81, pl. 230 (non Forsskål 1775: 192 = *Laurencia uvifera* (Forsskål) Boergesen, 1932: 12).

Caulerpa racemosa (Forsskål) J. Agardh var. **turbinata** (J. Agardh) Eubank, 1946. *Univ. Calif. Publs Bot.* 18: 420, fig. 2 o–q.
Papenfuss and Egerod, 1957. *Phytomorphology* 7 (1): 89.
Caulerpa clavifera (Turner) C. Agardh var. *turbinata* J. Agardh, 1837: 173.
Caulerpa racemosa var. *chemnitzia* (Esper) Weber-van Bosse, 1898: 370.
Fucus chemnitzia Esper, 1800: 167.
Caulerpa chemnitzia (Esper) Lamouroux, 1809: 332.

Caulerpa racemosa var. *uvifera* (C. Agardh) J. Agardh, 1872. *Lunds Univ. Årsskr.* Afd. 2, 9(8): 35.
Caulerpa racemosa (Forsskål) J. Agardh var. **racemosa** (see Papenfuss and Egerod, 1957: 88).

Caulerpa racemosa (Forsskål) J. Agardh var. **zeyheri** (Sonder ex Kuetzing) Weber-van Bosse, 1898. *Ann. Jard. bot. Buitenz.* 15: 364.

Caulerpa scalpelliformis (Brown ex Turner) C. Agardh, 1822. *Species algarum* ... 1(2): 437.
Caulerpa scalpelliformis (Brown ex Turner) C. Agardh var. **scalpelliformis**, see Papenfuss and Egerod (1957: 89).

Caulerpa scalpelliformis var. *denticulata* (Decaisne) Weber-van Bosse 1898. *Ann. Jard. bot. Buitenz.* 15: 287, pl. 22, fig. 11a; pl. 23, figs. 1–4.
Papenfuss and Egerod, 1957: 89, say that the plants reported under this name by Papenfuss (1943: 8) should be assigned to the variety *scalpelliformis*.

Caulerpa scalpelliformis (Brown ex Turner) C. Agardh var. **intermedia** Weber-van Bosse, listed from Inhaca in MacNae & Kalk (1958).

Caulerpa scalpelliformis (Brown ex Turner) C. Agardh var. **scalpelliformis**, Papenfuss et Egerod, 1957. *Phytomorphology* 7(1): 89.
Caulerpa scalpelliformis (Brown ex Turner) C. Agardh, 1822: 437.
Fucus scalpelliformis Brown ex Turner, 1811: 95.
Caulerpa scalpelliformis var. *typica* Weber-van Bosse, 1898: 287.

Caulerpa scalpelliformis var. *typica* Weber-van Bosse, 1898. *Ann. Jard. bot. Buitenz.* 15: 287, pl. 22, fig. 11a; pl. 23, figs. 1–4.
Caulerpa scalpelliformis (Brown ex Turner) C. Agardh var. **scalpelliformis** (see Papenfuss and Egerod, 1957: 89).

Caulerpa selago (Turner) C. Agardh, 1822. *Species algarum* ... 1(2): 442.
Papenfuss, 1952, *Jl S. Afr. Bot.* 17(4): 168, reported *Caulerpa selago* from South Africa; Papenfuss and Egerod (1957: 87) state that this material under the name of *Caulerpa selago* is representative of **Caulerpa lanuginosa** J. Agardh, 1872: 28.

Caulerpa serrulata (Forsskål) J. Agardh emend Boergesen, 1932: 5, pl. 1, fig. 2, listed from Inhaca in MacNae and Kalk (1958).
Fucus serrulatus Forsskål, 1775: 179.

Caulerpa simplex Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(9): 13, pl. 3, fig. 9.
Caulerpa brachypus Harvey, 1859: 333.

Caulerpa stahlii Weber-van Bosse, 1898. *Ann. Jard. bot. Buitenz.* 15: 282, pl. 22, figs. 3–4.
Caulerpa brachypus Harvey, 1859: 333.

Caulerpa taxifolia (Vahl) C. Agardh β *crassifolia* C. Agardh, 1822. *Species algarum* ... 1(2): 436.
Caulerpa mexicana Sonder ex Kuetzing, 1849: 496.

Caulerpa urvilliana Montagne, 1845. *Plantes cellulaires, Botanique* 1: 21.

Caulerpa webbiana Montagne var. **pickeringii** (Harvey et Bailey) Eubank, 1946. *Univ. Calif. Publs Bot.* 18 (18): 416.

Centroceras clavulatum (C. Agardh in Kunth) Montagne in Durieu de Maisonneuve, 1846. *Exploration scientifique de l'Algérie* ... 4: 140.
Ceramium clavulatum C. Agardh, 1828: 152.

Ceramium aciculare Roth, 1806: 114.
Gigartina acicularis (Roth) Lamouroux, 1813: 136 (reprint p.44).

Ceramium aculeatum C. Agardh ex Decaisne, 1841. *Arch. Mus. natn. Hist. nat. Paris* 2: 179.
Spyridia hypnoides (Bory) Papenfuss, 1968: 281.

Ceramium arenarium Simons, 1966. *Bothalia* 9(1): 159, pl. 1:4; fig. 1:2.

Ceramium atrorubescens Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 15, fig. 7F.
Simons, 1966. *Bothalia* 9(1): 161, pl. 1:5.

Ceramium cancellatum C. Agardh, 1824. *Systema algarum*, p. 136.
Papenfuss, 1952. *Jl S. Afr. Bot.* 17: 177.
Simons, 1966. *Bothalia* 9(1): 157.
Ceramium planum Kuetzing, 1849: 687.

Ceramium capense Kuetzing, 1841. *Linnaea* 15(6): 740.
Simons, 1966. *Bothalia* 9(1): 164, fig. 3:2.
Microcladia capensis (Kuetzing) Papenfuss, 1940: 223

Ceramium centroceratiforme Simons, 1966. *Bothalia* 9 (1): 164, pl. 2:3, fig. 3:3.

Ceramium circinnatum (Kuetzing) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 126.
Barton recorded this species from South Africa but Papenfuss (verbal communication 1970) says that it is probably a misidentification.

Ceramium clavulatum C. Agardh, 1828. *Species algarum* ... 2: 152.
Centroceras clavulatum (C. Agardh in Kunth) Montagne, 1846: 140.

Ceramium confervoides Roth, 1797. *Cat. bot.*, 1: 151.
Ectocarpus confervoides (Roth) Le Jolis, 1863: 75.

Ceramium diaphanum (Lightfoot) Roth, 1806. *Cat. bot.*, 3: 154.

Conferva diaphana Lightfoot 1793: 996.

See Simons, 1966a: 162, for varieties of this species (var. **capense** Simons and var. **pulchellum** (Kuetzing) Simons).

Ceramium diaphanum (Lightfoot) Roth var. **capense** Simons, 1966. *Bothalia* 9(1): 162, pl. 1:6.

Conferva diaphana Lightfoot, 1892: 996.

Ceramium diaphanum (Lightfoot) Roth var. **pulchellum** (Kuetzing) Simons, 1966a. *Bothalia* 9(1): 162, pl. 2:2, fig. 3:1.

Conferva diaphana Lightfoot, 1893: 996.

Ceramium pulchellum (Kuetzing) Kylin, 1938: 14.

Hormoceras pulchellum Kuetzing, 1849: 676.

Ceramium digenea Della Chiaje, 1829. *Hydrophyt. Neap.* pl. 31.

Digenea simplex (Wulfen) C. Agardh, 1822: 389.

Ceramium flexuosum (Kuetzing) Grunow, 1868. *Die Algen der Reise der österreichischen Fregatte Novara um die Erde* ... p. 64.

Ceramium planum Kuetzing, 1849: 687.

Ceramium furcellatum Kuetzing, 1849. *Species algarum,* p. 687; 1863, *Tabulae phycologicae* ... 13: 4, pl. 11, figs. a–b.

Ceramium obsoletum C. Agardh, 1828: 145.

Ceramium glanduliferum Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 14, fig. 7 a–b. Simons, 1966. *Bothalia* 9(1): 156.

Ceramium gracillimum Harvey, 1846–1851. *Phycologia britannica*, pl. 206.

According to G.F. Papenfuss (verbal communication, 1970) this record of Barton (1893) for South Africa is based on a misidentification.

Ceramium miniatum C. Agardh, 1824. *Systema algarum,* p. 141.

Ceramium obsoletum C. Agardh, 1828. *Species algarum* ... 2(1): 145.

Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 178.

Simons, 1966. *Bothalia* 9(1): 165, pl. 2:4.

Ceramium furcellatum Kuetzing, 1849: 687.

Ceramium papenfussianum Simons, 1966. *Bothalia* 9(1): 159, pl. 2:1, fig. 2:1 a–c.

Ceramium pulchellum sensu Kylin 1938: 14.

Ceramium planum Kuetzing, 1849. *Species algarum* ... p. 687; 1863. *Tabulae phycologicae* ... 13: 5, pl. 11, figs. c–d.

Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 177.

Simons, 1966. *Bothalia* 9(1): 157.

Simons, 1968. *Jl S. Afr. Bot.* 34(3): 127.

Ceramium cancellatum C. Agardh, 1824: 136 [non *Ceramium cancellatum* (L.) De Candolle, *Bull. Sci. Soc. Philomath.* 1804–1805: 264].

Pteroceras cancellatum (C. Agardh) Kuetzing, 1849: 690.

Pteroceras flexuosum Kuetzing, 1849: 690.

Ceramium flexuosum (Kuetzing) Grunow, 1868: 64. [non *Ceramium flexuosum* C. Agardh, 1824: 141 = *Pleonosporium flexuosum* (C. Agardh) Bornet, 1892: 167].

Ceramium poeppigianum Grunow, 1868. *Die Algen der Reise der österreichischen Fregatte Novara um die Erde*, p. 64, pl. 8, fig. 2 a–d.

Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 179.

Hommersand, 1963. *Univ. Calif. Publs Bot.* 35: 225, creates 2 subspecies **Ceramium poeppigianum** subsp. **poeppigianum** and **Ceramium poeppigianum** subsp. **unilaterale** Hommersand.

Reinboldiella poeppigianum (Grunow) Feldmann et Mazoyer, 1937: 213.

Ceramium poeppigianum Grunow subsp. **poeppigianum** Hommersand, 1963. *Univ. Calif. Publs Bot.* 35: 225, figs. 23 b–c, e–k; 24 a.

Ceramium poeppigianum Grunow subsp. **unilaterale** Hommersand, 1963. *Univ. Calif. Publs Bot.* 35: 225, figs. 23, a, d; 24, b–i; 25, a–c.

Ceramium prorepens sensu Barton, 1896. *J. Bot., Lond.* 34: 195.

Papenfuss (1952: 179) states that this record of Barton's is based on a misidentification and that *Ceramium prorepens* is, therefore, excluded from the South African flora.

Ceramium pulchellum (Kuetzing) Kylin, 1938. *Lund Univ. Årsskr.* N.F., Avd. 2, 34(8): 14, fig. 7c–e.

Ceramium diaphanum (Lightfoot) Roth var. **pulchellum** (Kuetzing) Simons, 1966: 162.

Ceramium pulchellum sensu Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 14, fig. 7 c–e.

Ceramium papenfussianum Simons 1966: 159.

Ceramium rubrum (Hudson) C. Agardh, 1811. *Dispositio algarum Sueciae* 2: 17.

The correct taxonomic status of this species is open to question (see discussion in Papenfuss (1940: 223) and Simons (1966: 164).

Ceramium strictum Roth, 1806. *Cat. bot.* 3: 130.

This alga which was reported by Barton (1893) for South Africa has not as yet been assigned to another taxon of *Ceramium*.

Ceramium tenerrimum (Martens) Okamura, 1921. *Icon. Jap. Alg.* 4: 112, pl. 179, fig. 1–7.

Simons, 1966. *Bothalia* 9(1): 157, pl. 1:3, fig. 1:1.

Hormoceras tenerrimum Martens, 1866: 146.

Chaetangium dichotomum Kuetzing, 1869. *Tabulae phycologicae* ... 19: 18, pl. 48, figs. c–f.

Chaetangium erinaceum (Turner) Papenfuss, 1952: 173; 1968: 269.

Chaetangium erinaceum (Turner) Papenfuss, 1952. *Jl Afr. Bot.* 17(4): 173; 1968. *Jl S. Afr. Bot.* 34(5): 269.

Fucus erinaceus Turner, 1808: pl. 26.

Chaetangium ornatum auct. non *Fucus ornatus* Linnaeus = *Suhria vittata* (Linnaeus) J. Agardh ex Endlicher, 1843: 41.

Chaetangium dichotomum Kuetzing, 1869: 18.

Chaetangium hystrix (C. Agardh) Kuetzing, 1849: 793. (Only as to the South African material, not as to type of *Grateloupia hystrix* C. Agardh, 1822: 223).

Chaetangium hystrix (C. Agardh) Kuetzing, 1849. *Species algarum,* p. 793.

Chaetangium erinaceum (Turner) Papenfuss, 1952: 173; 1968: 269.

Chaetangium ornatum (Linnaeus) Kuetzing, 1843. *Phycologia generalis* ... p. 392.

Chaetangium erinaceum (Turner) Papenfuss, 1952: 173; 1968: 269.

Chaetangium ovale (Suhr) Papenfuss, 1940. *Bot. Notiser* 1940: 213.

Dumontia ovalis Suhr, 1840: 274.

Delesseria saccata Lamouroux, 1813: 125 (in part).

Chaetangium saccatum J. Agardh, 1849: 89.

Halymenia saccata β simplex C. Agardh, 1822: 208 (in part).

Chaetangium saccatum J. Agardh, 1849. *K. svenska Vet.-Akad. Förh.* 6: 89; 1852. *Species genera et ordines algarum* ... 2(2): 459.

Chaetangium ovale (Suhr) Papenfuss, 1940: 213.

Chaetangium zeyheri Kuetzing, 1849. *Species algarum,* p. 793.

Grateloupia filicina (Wulfen) C. Agardh, 1822: 223.

Chaetomorpha aerea (Dillwyn) Kuetzing, 1849. *Species algarum*, p. 379.

Conferva aerea Dillwyn, 1809: pl. 80.

Chaetomorpha antennina (Bory) Kuetzing, 1847. *Bot. Ztg.* 5: 166.

Chaetomorpha media (C. Agardh) Kuetzing, 1849: 380.

Conferva media C. Agardh, 1824: 100.

Chaetomorpha clavata Kuetzing, 1849. *Species algarum*, p. 380 (in part); 1853. *Tabulae phycologicae* ... 3: 19, pl. 62, fig. 1, non *Conferva clavata* C. Agardh, 1824: 99.

Chaetomorpha robusta (Areschoug) Papenfuss, 1940: 200.

Chaetomorpha crassa (C. Agardh) Kuetzing, 1845. *Phycologia germanica* ... p. 204.

Conferva crassa C. Agardh, 1824: 99.

Chaetomorpha linum (O.F. Mueller) Kuetzing, 1845. *Phycologia germanica* ... p. 204.

Conferva linum O.F' Mueller, 1767: pl. 771, fig. 2.

Chaetomorpha littorea (Harvey) Harvey, 1857: 87. A record of Delf & Michell (1921: 93).

Chaetomorpha media (C. Agardh) Kuetzing, 1849. *Species algarum,* p. 380.

Chaetomorpha antennina (Bory) Kuetzing, 1847: 166

Chaetomorpha natalensis (Hering) Kuetzing, 1849. *Species algarum,* p. 381.

Conferva natalensis Hering, 1846: 215.

Chaetomorpha robusta (Areschoug) Papenfuss, 1940. *Bot. Notiser* 1940: 200.

Lychaete robusta Areschoug, 1851: 8.

Chaetomorpha clavata Kuetzing 1849: 380 (in part); 1853: 19, pl. 62, fig. 1, [non *Conferva clavata* C. Agardh, 1824: 99].

Chaetopteris squamulosa (Turner) Kuetzing, 1849. *Species algarum,* p. 468.

Phloiocaulon squamulosum (Suhr) Geyler, 1866: 509

Chaetopteris suhrii J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 40.

Phloiocaulon squamulosum (Suhr) Geyler, 1866: 509

Chamaedoris delphinii (Hariot) Feldmann et Boergesen in Boergesen, 1940. *K. danske Vidensk. Selsk. Biol. Meddel.* 15(4): 16, fig. 5, pl. 1.

Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 167.

Siphonocladus delphinii Hariot, 1902: 470.

Chamaethamnion schizandra Falkenberg in Schmitz and Falkenberg, 1897, p. 449.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 269, states that this species is incorrectly reported from South Africa.

Champia compressa Harvey, 1838. *The genera of South African plants,* 1st ed., p. 402.

Champia lumbricalis (Roth) Desvaux, 1808. *Journ. Bot.,* p. 245.

Mertensia lumbricalis Roth, 1806: 318.

Cheilosporum africanum Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 570.

Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Cheilosporum anceps Yendo, 1902. *J. Coll. Sc. Imp. Univ. Tokyo* 16: 18, pl. 2, figs. 6–8; pl. 6, fig. 2.

Arthrocardia anceps (Yendo) Johansen, comb. nov., see p. 2.

Cheilosporum corymbosum (Lamarck) De Toni, 1905. *Sylloge algarum* ... 4: 1826.

Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Cheilosporum cultratum (Harvey) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum...* 2(2/2): 545.

Amphiroa cultrata Harvey, 1847: 102.

Amphiroa cultrata var. *pectinata* Kuetzing, 1838: 27, pl. 55.

Amphiroa multifida Kuetzing, 1858: 27.

Cheilosporum cultratum f. *multifidum* (Kuetzing) Yendo, 1905: 19.

Cheilosporum cultratum var. *pectinatum* (Kuetzing) Yendo, 1905: 19.

Cheilosporum multifidum (Kuetzing) Manza, 1937: 571. (Personal communication from H.W. Johansen, 1970).

Cheilosporum cultratum f. *multifidum* (Kuetzing) Yendo, 1905b. *J. Coll. Sci. Imp. Univ. Tokyo* 20: 9.

Cheilosporum cultratum (Harvey) Areschoug in J. Agardh, 1852: 545.

Cheilosporum cultratum var. *pectinatum* (Kuetzing) Yendo, 1905: 19.

Cheilosporum cultratum (Harvey) Areschoug in J. Agardh, 1852: 545.

Cheilosporum elegans (Hooker f. et Harvey) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2/2): 546. A Stephenson (1948) record.

Amphiroa elegans Hooker f. et Harvey, 1847: 101.

Cheilosporum filiculum (Lamarck) Yendo, 1905b. *J. Coll. Sci. Imp. Univ. Tokyo* 20: 20.

Arthrocardia filicula (Lamarck) Johansen, comb. nov., see p. 2.

Cheilosporum flabellatum (Harvey) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2/2): 544.

Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Cheilosporum lamourouxianum (Decaisne) De Toni, 1905. *Sylloge algarum* ... 4: 1833.

Cheilosporum sagittatum (Lamouroux) Areschoug, in J. Agardh, 1852: 545. (Personal communication from H.W. Johansen, 1970).

Cheilosporum multifidum (Kuetzing) Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 571.

Cheilosporum cultratum (Harvey) Areschoug in J. Agardh, 1852: 545.

Cheilosporum palmatum (Ellis et Solander) Yendo, 1902c. *Bot. Mag. Tokyo* 16(3): 192.

Arthrocardia palmata (Ellis et Solander) Areschoug in J. Agardh, 1852: 549.

Cheilosporum palmatum var. *filiculum* (Lamarck) Yendo 1902b. *J. Coll. Sc. Imp. Univ. Tokyo* 16(3): 8.

Arthrocardia filicula (Lamarck) Johansen, comb. nov., see p. 2.

Cheilosporum proliferum (Lamouroux) De Toni, 1905. *Sylloge algarum* ... 4: 1833.

Corallina prolifera Lamouroux, 1816: 291.

Arthrocardia prolifera (Lamouroux) Decaisne, 1842a: 359.

Amphiroa prolifera (Lamouroux) Decaisne, 1842b: 125.

Amphiroa stangeri Harvey, 1847: 102, pl. 39.

Cheilosporum stangeri (Harvey) Areschoug, 1852: 544.

Amphiroa flabellata Harvey, 1847: 101, pl. 39.

Cheilosporum flabellatum (Harvey) Areschoug in J. Agardh, 1852: 544.

Amphiroa heterocladia Kuetzing, 1858: 28.

Cheilosporum africanum Manza, 1937: 570.

(Personal communication from H.W. Johansen, 1970).

Cheilosporum sagittatum (Lamouroux) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2/2): 545.

Corallina sagittata Lamouroux, 1824: 625.

Arthrocardia sagittata (Lamouroux) Decaisne, 1942a: 359.

Amphiroa sagittata (Lamouroux) Decaisne, 1842b: 125.

Amphiroa lamourouxiana Decaisne, 1842: 125.

Cheilosporum lamourouxianum (Decaisne) De Toni, 1905: 1833. (Personal communication from H.W. Johansen, 1970).

Cheilosporum stangeri (Harvey) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2/2): 544.

Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Chlanidophora plumbea (Areschoug) Papenfuss, 1940. *Bot. Notiser* 1940: 204.

Padina plumbea (Areschoug) Levring, 1940: 10, fig. 5.

Chlorodesmis hildenbrandtii A. et E.S. Gepp, 1911. *Siboga Expedition Monograph,* p. 16, figs 74 and 75.

Chnoospora fastigiata J. Agardh var. *pacifica* (J. Agardh) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 172.

Chnoospora minima (Hering) Papenfuss, 1956: 69.

Chnoospora minima (Hering) Papenfuss, 1956. *Jl S. Afr. Bot.* 22(2): 69.

Fucus minimus Hering, 1841: 92.

Chnoospora pacifica J. Agardh, 1847: 7.

Chnoospora fastigiata J. Agardh var. *pacifica* (J. Agardh) J. Agardh, 1848: 172.

Chnoospora pacifica J. Agardh, 1847. *K. svenska Vet.-Akad. Förh.* 4: 7.

Chnoospora minima (Hering) Papenfuss, 1956: 69.

Chondria armata (Kuetzing) Okamura, 1907. *Icon. Jap. Alg.* 1: 69, pl. 16, fig. 9–19.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 269.

Lophura armata Kuetzing, 1866: 2.

Rhodomela crassicaulis Harvey, *Ceylon algae* No. 8 (nomen nudum). Svedelius, 1906: 191.

Chondria minima Weber-van Bosse, 1921: 309.

Chondria capensis (Harvey) Falkenberg, 1901. *Die Rhodomelaceen des Golfes von Neapel* ... 26: 720.

Laurencia capensis Harvey, 1847: 86, pl. 31.

Chondria complanata Suhr in Krauss, 1846. *Flora, Jena* 29: 211.

Laurencia complanata (Suhr) Kuetzing, 1849: 857.

Chondria compressa Harvey, 1838: 402. A Stephenson record; nomen nudum?

Chondria minima Weber-van Bosse, 1921. *Siboga Expedition Monograph* 59b, p. 191, figs. 3 and 9, pl. 6, fig. A.

Chondria armata (Kuetzing) Okamura, 1907: 69.

Chondria obtusa ζ *virgata* C. Agardh, 1822. *Species algarum* ... 1(2): 343.

Laurencia glomerata Kuetzing, 1849: 857.

Chondrococcus hornemannii sensu Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 37(2): 8.

Chondrococcus tripinnatus (Hering) Delf et Michell, 1921: 118.

Chondrococcus hornemannii (Lyngbye) Schmitz, 1896. *Bot. Jb.* 21: 170.

Papenfuss, 1940. *Bot. Notiser* 1940: 216.

Silva, 1952. *Univ. Calif. Publs Bot.* 25(4): 304.

Desmia hornemannii Lyngbye, 1819: 35, pl. 7c.

Sphaerococcus lambertii sensu Suhr, 1834: 728.

Chondrococcus lambertii sensu Kuetzing, 1847: 23 (in part); 1867: 28, pl. 95, figs. a, b; Schmitz 1896: 171; Kylin, 1938: 8.

Chondrococcus hornemannii var. *tripinnatus* (Hering) Tyson, 1909: No. 88 (as var. *tripinnata*).

Chondrococcus tripinnatus (Hering) Delf & Michell, 1921: 118.

Chondrococcus lambertii sensu Kuetzing (in part) 1847. In *Bot. Ztg.* 5: 23; 1867. *Tabulae phycologicae* ... 17: 28, pl. 95, figs. a–b.
Silva, 1952. *Univ. Calif. Publs Bot.* 25(4): 305.

Chondrococcus hornemannii (Lyngbye) Schmitz, 1896: 170.

Chondrococcus tripinnatus (Hering) Delf et Michell, 1921: 118 (as *C. tripinnata*).

Rhodymenia tripinnata Hering, in Krauss, 1846: 209 (as *Rhodhymenia tripinnata).*

Sphaerococcus (?) tripinnatus (Hering) Kuetzing, 1849: 783.

Desmia tripinnata (Hering) J. Agardh, 1852: 640.

Chondrococcus hornemannii var. *tripinnatus* (Hering) Tyson, 1909, No. 88 (as var. *tripinnata*).

Chondrococcus hornemannii sensu Kylin, 1938: 8.

Chondrodon flaccidus Kuetzing, 1868. *Tabulae phycologicae* ... 18: 25, pl. 70, figs. a–c.

Delisea flaccida (Suhr) Papenfuss, 1940: 214.

Chondrus agathoicus Kuetzing, 1867: 16, pl. 54, figs. a–b (see reference under *Iridaea agathoica*).

Chondrus capensis Kuetzing, 1849. *Species algarum,* p. 738 (excluding synonyms); 1867. *Tabulae phycologicae* ... 17: 17, pl. 59, figs. a–b [not *Gymnogongrus capensis* (C. Agardh) J. Agardh].

Gymnogongrus vermicularis (C. Agardh) J. Agardh, 1851: 323.

Chondrus complicatus Kuetzing, 1849. *Species algarum,* p. 737; 1867. *Tabulae phycologicae* ... 17: 17, pl. 58, figs. a–d.

Gymnogongrus complicatus (Kuetzing) Papenfuss, 1943: 88.

Chondrus fragilis Greville, 1839: 55.

Trematocarpus fragilis (C. Agardh) De Toni, 1900: 417.

Chondrus ? polycladus Kuetzing, 1849. *Species algarum,* p. 737; 1867. *Tabulae phycologicae* ... 17: pl. 57.

Gymnogongrus polycladus (Kuetzing) J. Agardh, 1851: 322.

Chondrus scabiosus Kuetzing, 1867. *Tabulae phycologicae* ... 17: 19, pl. 63, figs. a, b.

Gigartina scutellata (Hering) Simons, in press (personal communication, 1982).

Chondrus scutellatus Hering in Krauss, 1846: 210.

Gigartina scutellata (Hering) Simons, in press (personal communication, 1982).

Chorda capensis Kuetzing, 1843. *Phyc. Gen.* p. 334.

Chordariopsis capensis (Kuetzing) Kylin, 1940: 54.

Chorda lomentaria Lyngbye, 1819. *Tentamen hydrophytologiae danicae*, p. 74.

Scytosiphon lomentaria (Lyngbye) Link, 1833: 232.

Chordaria capensis (Kuetzing) Areschoug, 1851. *Phyc. Cap.* p. 22.

Chordariopsis capensis (Kuetzing) Kylin, 1940: 54.

Chordaria flagelliformis (Mueller) C. Agardh, 1817. *Synopsis algarum* ... p. 12 (see Delf and Michell (1921: 98) for mention of this Barton record).

Chordaria flagelliformis (Mueller) C. Agardh var. *capensis* C. Agardh, 1824. *Systema algarum*, p. 257.

Chordariopsis capensis (Kuetzing) Kylin, 1940: 54.

Chordaria sordida Bory in Duperrey, 1827–1829. *Voyage autour du monde sur La Coquille*, p. 139.

Papenfussiella gracilis Kylin, 1940: 17.

Chordariopsis capensis (Kuetzing) Kylin, 1940. *Lunds Univ. Årsskr.* N.F., Avd. 2, 36(9): 54.

Chordaria flagelliformis (Mueller) C. Agardh var. *capensis* C. Agardh, 1824: 257.

Chorda capensis Kuetzing, 1843: 334.

Chordaria capensis (Kuetzing) Areschoug, 1851: 22.

Choreocolax margaritoides Martin et Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55: 50, figs. 1 c–e, pl. 10, c–e.

Gelidiocolax margaritoides (Martin et Pocock) Fan et Papenfuss, 1959: 34.

Choreocolax suhriae Martin et Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55: 48, fig. 1 a–b, pl. 10, figs. a–b.

Gelidiocolax suhriae (Martin et Pocock) Fan et Papenfuss, 1959: 33.

Choreonema thuretii (Bornet) Schmitz, 1889. *Flora, Jena* 72: 455.
Pocock, 1956. *Proc. Linn. Soc. Lond. Bot.* 167(1): 12, pl. 1, a–b.

Melobesia thuretii Bornet, 1878: 96.

Chrysymenia microphysa Schmitz, never validly published but recorded (as a nomen) in *Nuova Notarisia* 7: 21; 1896 (mouth of Kowie River, South Africa: comm. Dr. Becker).

Chrysymenia uvaria (Linnaeus) J. Agardh, 1851. *Species genera et ordines algarum* ... p. 214.
Delf & Michell (1921: 109) mention this species in connection with *Myriophylla beckeriana* Holmes, 1894: 342, and *Myrioglossa beckeriana* Holmes 1896: 89. For further discussion see Papenfuss, 1958: 106.

Chylocladia capensis Harvey, 1847. *Nereis australis* ... p. 79, pl. 29.

Lomentaria capensis (Harvey) Kuetzing, 1843: 440.

Gastroclonium capense (Harvey) De Toni, 1900: 567.

? Lomentaria patena Kuetzing, 1849: 863.

Chytraphora filiformis Suhr, 1834. *Flora, Jena* 17: 721, pl. 1, fig. 1.

Carpomitra filiformis (Suhr) Papenfuss, 1943: 82.

Cladophora aculeata (Montagne) Kuetzing, 1849. *Species algarum*, p. 419.

Conferva aculeata Montagne, 1839: 4.

Cladophora afra Kuetzing, 1849. *Species algarum,* p. 411

Cladophora albida (Hudson) Kuetzing, 1843. *Phycologia generalis* ... p. 267.

Conferva albida Hudson, 1778: 595.

Cladophora neesiorum (C. Agardh) Kuetzing, 1845: 208.

Cladophora anastomosans Harvey, 1854: 565.

Struvea anastomosans (Harvey) Piccone et Grunow ex Piccone, 1884: 20.

Cladophora boodleoides Boergesen, 1925. *K. danske Vidensk. Selsk. Biol. Meddel.* 5(3): 56, figs. 19–22.

Cladophora liebetruthii Grunow 1884: 53.

Cladophora capensis (C. Agardh) De Toni, 1889. *Sylloge algarum* ... 1: 354.
Papenfuss, 1940. *Symb. bot. upsal.* 4(3): 5. According to a personal communication (1970) from P.C. Silva, the author should be De Toni and not Kuetzing (as cited by Papenfuss (1940: 5).
Conferva capensis C. Agardh, 1824: 118.
Cladophora ecklonii (Rudolphi) Kuetzing, 1843: 270.
Conferva ecklonii Rudolphi, 1831: 80.
Conferva rupestris Thunberg, 1794: 181.

Cladophora catenifera Kuetzing, 1849. *Species algarum*, p. 390.
Cladophora radiosa (Suhr) Kuetzing, 1849: 422.

Cladophora contexta Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(9): 8, fig. 4 a–b; pl. 1, fig. 2.

Cladophora crystallina (Roth) Kuetzing, 1843. *Phycologia generalis* ... p. 267.
Conferva crystallina Roth, 1797: 196.

Cladophora dalmatica Kuetzing, 1843. *Phycologia generalis* ... p. 268.

Cladophora ecklonii Kuetzing, 1843. *Phycologia generalis* ... p. 270.
Cladophora capensis (C. Agardh) De Toni, 1889: 354.

Cladophora flagelliformis (Suhr) Kuetzing, 1849. *Species algarum*, p. 388.
Conferva flagelliformis Suhr, 1840: 294.

Cladophora glomerata (Linnaeus) Kuetzing, 1843. *Phycologia generalis* ... p. 266.
Conferva glomerata Linnaeus, 1753: 1167.

Cladophora hospita (Mertens) Kuetzing, 1843. *Phycologia generalis* ... p. 271.
Cladophora mirabilis (C. Agardh) Rabenhorst in Hohenacker, 1852: 2.

Cladophora hutchinsiae (Dillwyn) Kuetzing, 1845: 210.
Conferva hutchinsiae Dillwyn, 1809, pl. 109.

Cladophora isaacii Simons, 1960. *Bothalia* 7(2): 194, pl. 3, figs. 8–9.

Cladophora liebetruthii Grunow, 1884: 53.
Cladophora boodleoides Boergesen, 1925: 56, figs. 19–22.

Cladophora mediterranea Kuetzing, see Delf and Michell (1921: 24) who list this species as a record by Barton from Cape Agulhas.

Cladophora mirabilis (C. Agardh) Rabenhorst in Hohenacker, 1852. *Algae marinae siccatae*. 2: 53.
Papenfuss, 1940. *Symb. bot. upsal.* 4(3): 5.
Conferva mirabilis C. Agardh, 1820: Fasc. 1, No. 9.
Conferva hospita Mertens ex Chamisso, 1821: 178.
Cladophora hospita (Mertens) Kuetzing, 1843: 271.

Cladophora neesiorum (C. Agardh) Kuetzing, 1845. *Phycologia germanica*, p. 208.
Cladophora albida (Hudson) Kuetzing, 1843: 267.

Cladophora nuda (Harvey) Harvey ex Kuetzing, 1849. *Species algarum*, p. 395.
Conferva nuda Harvey, 1841: 136.

Cladophora prolifera (Roth) Kuetzing, 1843. *Phycologia generalis* ... p. 271.
Papenfuss (1943: 80) notes that the specimens from South Africa listed by various authors as *Cladophora prolifera* (Roth) Kuetzing, have been incorrectly assigned and should be known as **Cladophora rugulosa** Martens, 1866: 112, which is the South African species whereas *Cladophora prolifera* belongs to the Adriatic flora.

Cladophora radiosa (Suhr) Kuetzing, 1849. *Species algarum*, p. 422.
Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 79.
Conferva radiosa Suhr, 1834: 741.
Cladophora catenifera Kuetzing, 1849: 390.

Cladophora rudolphiana (C. Agardh) Kuetzing, 1843. *Phycologia generalis* ... p. 268.
Conferva rudolphiana C. Agardh, 1827: 636.

Cladophora rugulosa Martens, 1866. *Die Tange. Die preussische Expedition nach Ost-Asien.* Berlin. Bot. 1: 112, pl. 2, fig. 3.
Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 80.
Apjohnia rugulosa (Martens) G. Murray, 1891: 209.

Cladophora rupestris (Linnaeus) Kuetzing, 1843: 270. This is not a South African species according to Papenfuss (1940: 5).

Cladophora spinulosa Kuetzing, 1845. *Phycologia germanica* ... p. 209.

Cladophora trichotoma (C. Agardh) Kuetzing, 1843. *Phycologia generalis* ... p. 271. This species was recorded by Barton (1893) but is considered doubtful by Delf and Michell (1921: 94).

Cladophora utriculosa Kuetzing, 1843. *Phycologia generalis* ... p. 269. (A record of Pocock from Gansbaai). See Van Den Hoek 1963: 225 for further information.

Cladophora virgata (Kuetzing) Kuetzing, 1853: 27, pl. 95, fig. 1. See Van Den Hoek 1963: 61 for further information.

Cladophoropsis herpestica (Montagne) Howe, 1914: 31, herbarium specimen from Inhaca in Pocock herbarium, Albany Museum.
Conferva herpestica Montagne, 1842: 15.

Codiophyllum natalense J.E. Gray, 1872. *Ann. Mag. nat. Hist.*, ser. 4, 10: 139, pl. 9.
Chiang, 1970: *Univ. Calif. Publs Bot.* 58: 46, figs. 20–23.
Thamnoclonium natalense J.E. Gray, 1876: 170.

Codium acuminatum O.C. Schmidt, 1923. *Bibl. bot.* 23(91): 31, fig. 12.
Silva, 1959. *Jl S. Afr. Bot.* 25(2): 107, fig. 1 a–c.

Codium adhaerens C. Agardh, 1822. *Species algarum* ... 1(2): 457; 1824: 178.
Silva (1959: 104) excludes this species from the South African flora and mentions which S.A. species have been incorrectly recorded under this name.

Codium bursa C. Agardh, 1824. *Systema algarum* ... p. 178.
Silva (1959: 105) excludes this species from the South African flora. It is mentioned in Delf and Michell (1921: 95) in connection with Barton's 1893 and 1896 records.

Codium capitatum Silva, 1959. *Jl S. Afr. Bot.* 25(2): 135, figs 12 a–e, 13, pl. 11; also listed are incorrect determinations.

Codium cicatrix Silva, 1959. *Jl S. Afr. Bot.* 25(2): 143, fig. 16, pl. 12a; also listed are incorrect determinations.

Codium dichotomum: See Silva (1959: 105) where this species is excluded from the South African flora. The name has been used in an incorrect determination for *Codium pocockiae* Silva, 1959: 138.

Codium duthieae Silva, 1956. *Aust. J. Bot.* 4: 275, fig. 10, pl. 1, fig. 2; 1959. *Jl S. Afr. Bot.* 25(2): 148, fig. 18, pl. 15; also listed are incorrect determinations, excluded records and a *nomen nudum*.

Codium elongatum C. Agardh ζ *palmatifidum* Kuetzing, 1849. *Species algarum*, p. 501.

Codium platylobium Areschoug, 1854: 367.

Codium extricatum Silva, 1959. *Jl S. Afr. Bot.* 25(2): 145, fig. 17, pls. 13–14.

Codium fragile (Suhr) Harvey subsp. **capense** Silva, 1959 *Jl S. Afr. Bot.* 25(2): 153, figs. 20–21, pl. 16a; also listed are incorrect determinations and excluded records.

Codium galeatum J. Agardh, 1887. *Lunds Univ. Årsskr.* Afr. 3, 23(2): 42, pl. 1, fig. 1.
Silva, 1959. *Jl S. Afr. Bot.* 25(2): 157. This species is excluded from the South African flora.

Codium incognitum Silva, 1959. *Jl S. Afr. Bot.* 25(2): 118, fig. 5.

Codium isaacii Silva, 1959. *Jl S. Afr. Bot.* 25(2): 151, fig. 19, pl. 16b.

Codium tomentosum var. *capense* Areschoug, 1854: 368.

Codium lindenbergii Binder ex Kuetzing, 1856. *Tabulae phycologicae* ... 6: 34, pl. 97.

Codium platylobium Areschoug, 1854: 367.

Codium lucasii Setchell subsp. **capense** Silva, 1959. *Jl S. Afr. Bot.* 25(2): 111, fig. 3; also listed are incorrect determinations.

Codium mamillosum Harvey var. *capense* O.C. Schmidt, 1923. *Bibl. Bot.* 23(91): 37.

Codium megalophysum Silva, 1959: 125.

Codium megalophysum Silva, 1959. *Jl S. Afr. Bot.* 25 (2): 125, fig. 8, pl. 6.

Codium mamillosum Harvey var. *capense* O.C. Schmidt, 1923: 37.

Codium mozambiquense Silva, 1959. *Jl S. Afr. Bot.* 25 (2): 109, fig. 2, pl. 2a.

Codium mucronatum J. Agardh, 1872. *Lunds Univ. Årsskr.*, Afd. 2, 9(8): 43.
Delf and Michell (1921: 95) list this species as an additional record of Barton. Silva (1959: 105) excludes this species from the South African flora.

Codium papenfussii Silva, 1959. *Jl S. Afr. Bot.* 25(2): 122, fig. 7, pl. 5; also listed are incorrect determinations.

Codium papillatum Tseng and Gilbert, 1942. *J. Wash. Acad. Sci.* 32: 291, 3 figs. A record of Pocock (1958: 24) of this species has been assigned to **Codium cicatrix** Silva, 1959: 143.

Codium pelliculare Silva, 1959. *Jl S. Afr. Bot.* 25(2): 103, pl. 7, fig. 9.

Codium platylobium Areschoug, 1854. *Nova Acta R. Soc. Scient. upsal.*, ser. 3, 1: 367.
Papenfuss, 1940. *Bot. Notiser* 1940: 204, fig. 4.
Silva, 1959. *Jl S. Afr. Bot.* 25(2): 130, fig. 10, pls. 8–9.

Codium lindenbergii Binder ex Kuetzing, 1856: 34.

Codium elongatum C. Agardh ζ *palmatifidum* Kuetzing, 1849: 501.

Codium pocockiae Silva, 1959. *Jl S. Afr. Bot.* 25(2): 138, fig. 14, pl. 12b; also listed are incorrect determinations.

Codium prostratum Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(9): 16, pl. 4, fig. 11, text-figs. 8 a–d.
Silva, 1959. *Jl S. Afr. Bot.* 25(2): 133, fig. 11, pl. 10.

Codium spongiosum Harvey, 1855. *Trans. R. Irish Acad.* 22: 565.
Silva, 1959. *Jl S. Afr. Bot.* 25(2): 118, fig. 6; also listed are incorrect determinations and excluded records.

Codium stephensiae Dickinson, 1932. *Rev. Alg.* 6: 131, pl. 3, figs. 1–3.
Silva, 1959. *Jl S. Afr. Bot.* 25(2): 115, fig. 4, pls. 3–4; also listed are incorrect determinations.

Codium tenue (Kuetzing) Kuetzing, 1856. *Tabulae phycologicae* ... 6: 33, pl. 95, fig. 1.
Silva, 1959. *Jl S. Afr. Bot.* 25(2): 140, fig. 15, pl. 2b; also listed are incorrect determinations.

Codium tomentosum (Hudson) Stackhouse, 1801. *Nereis britannica*, p. 16, pl. 7.
Silva, 1959. *Jl S. Afr. Bot.* 25(2): 157 gives much information about unverified records of this species for South Africa.

Codium tomentosum var. *capense* Areschoug, 1854. *Nova Acta R. Soc. Scient. upsal.*, ser. 3, 1: 368.

Codium isaacii Silva, 1959: 151.

Colaconema pulvinatum Schmitz in Engler and Prantl, 1897. *Natürl. Pflanzenfam.*, p. 452, fig. 254.

Colacopsis pulvinata (Schmitz) De Toni, 1903: 1170.

Colacopsis pulvinata (Schmitz) De Toni, 1903. *Sylloge algarum* ... 4: 1170.

Colaconema pulvinatum Schmitz in Engler and Prantl, 1897: 452.

Colpomenia capensis Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(9): 20, fig. 9, pl. 4, fig. 13.

Iyengaria stellata (Boergesen) Boergesen, 1939: 92.

Colpomenia sinuosa (Roth) Derbès et Solier in Castagne, 1851. *Supplément, Catalogue des plantes* ... p. 95.
Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 83.

Ulva sinuosa Roth, 1806: 327.

Colpomenia stellata (Boergesen) Boergesen, 1930. *J. Indian Bot.* 9: 169.

Iyengaria stellata (Boergesen) Boergesen, 1939: 92.

Conferva aculeata Montagne, 1839. *Sertum patagonicum Bot.* 1, p. 4, pl. 4, fig. 1.

Cladophora aculeata (Montagne) Kuetzing, 1849: 419.

Conferva aerea Dillwyn, 1809. *British Confervae*, pl. 80.
Chaetomorpha aerea (Dillwyn) Kuetzing, 1849: 379.

Conferva albida Hudson, 1762. *Flora anglica*, p. 595.
Cladophora albida (Hudson) Kuetzing, 1843: 267.

Conferva ambigua Hooker f. et Harvey, 1845: 295.
Rhizoclonium ambiguum (Hooker f. et Harvey) Kuetzing, 1849: 387.

Conferva atropurpurea Roth, 1806: 298.
Bangia atropurpurea (Roth) C. Agardh, 1824: 76.

Conferva capensis C. Agardh, 1824. *Systema algarum*, p. 118.
Cladophora capensis (C. Agardh) De Toni, 1889: 354.

Conferva clathrata Roth, 1806: 175.
Enteromorpha clathrata (Roth) Greville, 1830: 181.

Conferva crassa C. Agardh, 1824. *Systema algarum*, p. 99.
Chaetomorpha crassa (C. Agardh) Kuetzing, 1845: 204.

Conferva crystallina Roth, 1797. *Cat. bot.* 1, p. 196.
Cladophora crystallina (Roth) Kuetzing, 1843: 267.

Conferva diaphana Lightfoot, 1793. *Flora scotica*, p. 996.
Ceramium diaphanum (Lightfoot) Roth, 1806: 154.

Conferva ecklonii Rudolphi, 1831. *Linnaea* 6: 180.
Cladophora capensis (C. Agardh) De Toni, 1889: 354.

Conferva flacca Dillwyn, 1809. *British Confervae*, pl. 49.
Ulothrix flacca (Dillwyn) Thuret, 1863: 57.

Conferva flagelliformis Suhr, 1840. *Flora, Jena* 23: 294.
Cladophora flagelliformis (Suhr) Kuetzing, 1849: 388

Conferva flexuosa Wulfen in Roth, 1797–1806. *Cat. bot.* 1, p. 188.
Enteromorpha flexuosa (Wulfen in Roth) J. Agardh, 1883: 126.

Conferva glomerata Linnaeus, 1753: 1167.
Cladophora glomerata (Linnaeus) Kuetzing, 1843: 266.

Conferva herpestica Montagne, 1842: 15.
Cladophoropsis herpestica (Montagne) Howe, 1914: 31.

Conferva hospita Mertens ex Chamisso, 1821. *Verhandl Gesellsch. Naturf. Fr.* 1(3): 178.
Cladophora mirabilis (C. Agardh) Rabenhorst in Hohenacker, 1852: 2.

Conferva hutchinsiae Dillwyn, 1809. *British Confervae,* pl. 109.
Cladophora hutchinsiae (Dillwyn) Kuetzing, 1845: 210.

Conferva linum O.F. Mueller, 1767. *Flora Danica,* pl. 771, fig. 2.
Chaetomorpha linum (O.F. Mueller) Kuetzing, 1845: 204.

Conferva media C. Agardh, 1824. *Systema algarum,* p. 100.
Chaetomorpha antennina (Bory) Kuetzing, 1847: 166.

Conferva mirabilis C. Agardh, 1820. *Icones algarum ined.*, Fasc. 1(9): pl. 9.
Cladophora mirabilis (C. Agardh) Rabenhorst in Hohenacker, 1852: 2.

Conferva natalensis Hering in Krauss, 1846. *Flora, Jena* 29: 215.
Chaetomorpha natalensis (Hering) Kuetzing, 1849: 381.

Conferva nuda Harvey, 1841. *Manual of British marine Algae*, p. 136.
Cladophora nuda (Harvey) Harvey ex Kuetzing, 1849: 395.

Conferva parasitica Hudson, 1762. *Flora anglica,* p. 604.
Pterosiphonia parasitica (Hudson) Falkenberg, 1901: 265.

Conferva percursa C. Agardh, 1817. *Synopsis algarum* ... p. 87.
Percursaria percursa (C. Agardh) Bory in Reinbold, 1893: 201.

Conferva radiosa Suhr, 1834. *Flora, Jena* 17: 741.
Cladophora radiosa (Suhr) De Toni, 1849: 422.

Conferva riparia Roth, 1797–1806. *Cat. bot.* 1: 216.
Rhizoclonium riparium (Roth) Harvey, 1849: 238.

Conferva rudolphiana C. Agardh, 1827. *Flora, Jena* 10 (40): 636.
Cladophora rudolphiana (C. Agardh) Kuetzing, 1843: 268.

Conferva rupestris Thunberg, 1794. *Prodromus plantarum capensium* ... p. 181.
Cladophora capensis (C. Agardh) De Toni, 1889: 354.

Conferva simplex Wulfen, 1803. *Cryptogama aquatica* ... p. 17.
Digenea simplex (Wulfen) C. Agardh, 1822: 389.

Contarinia australis Endlicher et Diesing, 1845. *Bot. Ztg.* 3(17): 289.
Carpophyllum scalare Suhr, 1840: 257.

Corallina adhaerens (Lamouroux) Kuetzing, 1858. *Tabulae phycologicae* ... 8: pl. 83.
Jania adhaerens Lamouroux, 1816: 270.

Corallina anceps sensu Kuetzing, 1843, *Phycologia generalis*, p. 388, non Lamarck, 1815.
Arthrocardia anceps (Yendo) Johansen, comb. nov., see p. 2.

Corallina anceps Lamarck, 1815. *Mém. Mus. natn. Hist. nat. Paris* 2: 238.
Amphiroa anceps (Lamarck) Decaisne, 1842: 125.

Corallina arbuscula Postels et Ruprecht, 1840. *Illustrationes algarum oceani pacifico* ... 2, Tab. 40, fig. 102. (A Kuetzing record for South Africa).

Corallina berterii Montagne ex Harvey, 1847. *Nereis australis* ... p. 103.
Arthrocardia capensis Areschoug in J. Agardh, 1852: 552.
Corallina loricata Kuetzing, 1843: 388. (Personal communication from H.W. Johansen).

Corallina bifurca Kuetzing, 1858. *Tabulae phycologicae* ... 8: 41, pl. 86, fig. 3.
Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Corallina capensis Leach in Decaisne, 1842b: 107. A Stephenson (1948) record from East London.

Corallina carinata Kuetzing, 1858. *Tabulae phycologicae* ... 8: 30, pl. 61, fig. 2 h–i, k–n.

Arthrocardia carinata (Kuetzing) Johansen, comb. nov., see p. 2.

Corallina carinata var. *oblongata* Kuetzing, 1858: 30.

Arthrocardia carinata (Kuetzing) Johansen, comb. nov., see p. 2.

Corallina chilensis Decaisne in Harvey, 1847: 103. Stephenson (1948) records this species from Port Elizabeth and Still Bay.

Corallina corymbosa Lamarck, 1815. *Mém. Mus. natn. Hist. nat. Paris* 2: 234.

Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Corallina crassa (Lamouroux) Collins, in Collins, Holden et Setchell, 1898. *Bor. Amer.* no.500.

Jania crassa Lamouroux, 1821: 23.

Corallina cubensis (Montagne ex Kuetzing) Kuetzing, 1858. *Tabulae phycologicae* ... 8: 37. A record from Inhaca by Pocock in MacNae and Kalk (1958).

Corallina cuvieri Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 287, pl. 9, fig. 8. A record from Inhaca by Pocock in MacNae and Kalk (1958).

Corallina cuvieri var. *subulata* (Ellis et Solander) Areschoug, in J. Agardh, 1852: 572.

Haliptilon subulata (Ellis et Solander) Johansen, 1970: 79.

Corallina ephedraea Lamarck, 1815. *Mém. Mus. natn. Hist. nat. Paris* 2: 238.

Amphiroa ephedraea (Lamarck) Decaisne, 1842: 124.

Corallina fastigiata (Harvey) Kuetzing, 1858. *Tabulae phycologicae* ... 8: 38.

Jania verrucosa Lamouroux, 1816: 270, pl. 9, fig. 4a.

Corallina filicula Lamarck, 1815. *Mém. Mus. natn. Hist. nat. Paris* 2: 234.

Arthrocardia filicula (Lamarck) Johansen, comb. nov., see p. 2.

Corallina flabellata Kuetzing, 1858. *Tabulae phycologicae* ... 8: 29, pl. 60, fig. 2.

Arthrocardia flabellata (Kuetzing) Manza, 1940: 286.

Corallina gomphonemacea Kuetzing, 1858. *Tabulae phycologicae* ... 8: 30, pl. 63, fig. 1.

Arthrocardia carinata (Kuetzing) Johansen, comb. nov., see p. 2.

Corallina gracilis Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 288, pl. 10, fig. 1.

Haliptilon gracilis (Lamouroux) Johansen, 1971: 243.

Corallina intermedia Kuetzing, 1858. *Tabulae phycologicae* ... 8: 37, pl. 79, fig. 1.

Jania verrucosa Lamouroux, 1816: 270, pl. 9, fig. 4a.

Corallina livida Lamarck, 1815. *Mém. Mus. natn. Hist. nat. Paris* 2: 235.

Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Corallina loricata Kuetzing, 1843. *Phycologia generalis,* p. 388. (Recorded by Barton, 1893, for South Africa).

Corallina berterii Montagne ex Harvey, 1847: 103.

Corallina membranacea Esper, 1797–1808. *Icones Fucorum*, pl. 12, figs. 1–4.

Lithothamnium membranaceum (Esper) Foslie, 1900: 15.

Corallina natalensis (Harvey) Kuetzing, 1858. *Tabulae phycologicae* ... 8: 38.

Jania crassa Lamouroux, 1821: 23.

Corallina officinalis Linnaeus, 1758. *Systema naturae* ... ed. 10, 1: 805.

Corallina palmata Ellis et Solander, 1786. *Natural history ... Zoophyt.* p. 118, pl. 21, fig. A.

Arthrocardia palmata (Ellis et Solander) Areschoug in J. Agardh, 1852: 549.

Corallina pilulifera Postels et Ruprecht, 1840. *Illustrationes algarum oceani pacifico* ... 2: 20, pl. 40, fig. 101. (Recorded by Stephenson, 1948).

Corallina prolifera Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 291, pl. 10, fig. 5.

Cheilosporum proliferum (Lamouroux) De Toni, 1905: 1833.

Corallina pygmaea (Lamouroux) Kuetzing, 1858. *Tabulae phycologicae* ... 8: 37.

Jania adhaerens Lamouroux, 1816: 270.

Corallina racemosa Kuetzing, 1858. *Tabulae phycologicae* ... 8: 41, pl. 85, fig. 1 a–d.

Jania verrucosa Lamouroux, 1816: 270, pl. 9, fig. 4a.

Corallina rigida Kuetzing, 1843. *Phycologia generalis* ... p. 388.

Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Corallina rosarium Lamarck, 1815. *Mém. Mus. natn. Hist. nat. Paris* 2: 234.

Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Corallina rosea Lamarck, 1815. *Mém. Mus. natn. Hist. nat. Paris* 2: 232.

Haliptilon subulata (Ellis et Solander) Johansen, 1970: 79.

Corallina rubens Linnaeus, 1758: 806.

Jania rubens (Linnaeus) Lamouroux 1812: 186.

Corallina sagittata Lamouroux, 1824. *Freyc. Voy. Zool.,* p. 625, pl. 95, fig. 11–12.

Cheilosporum sagittatum (Lamouroux) Areschoug in J. Agardh, 1852: 545.

Corallina simplex Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 286.

Arthrocardia corymbosa (Lamarck) Decaisne, 1842: 380.

Corallina subulata Ellis et Solander, 1786. *Natural History ... Zoophyt*, p. 120, fig. 21, B.

Haliptilon subulata (Ellis et Solander) Johansen, 1970: 79.

Corallina verrucosa (Lamouroux) Kuetzing, 1858. *Tabulae phycologicae* ... 8: 38.

Jania verrucosa Lamouroux, 1816: 270, pl. 9, fig. 4a.

Corallopsis aculeata (Hering) Holmes, 1894. *Ann. Bot.* 8(31): 336.

Gracilaria aculeata (Hering) Papenfuss, 1966: 100.

Corallopsis dichotoma Suhr, 1839. *Flora, Jena* 22(5): 70, pl. 3, fig. 44. [Non *Galaxaura dichotoma* Lamouroux ex Decaisne, 1842: 116].

Galaxaura magna Kjellman, 1900: 82.

Corallopsis opuntia J. Agardh, 1876: 409. Recorded from Inhaca in MacNae & Kalk (1958).

Cruoria verrucosa Areschoug, 1843. *Linnaea*, 17: 264.

Ralfsia verrucosa (Areschoug) J. Agardh, 1848: 62.

Cruoria ? welwitschii Ruprecht, 1851. *Tange Ochotsk. Meeres* p. 332, pl. 18, fig. 1.

Erythrotrichia welwitschii (Ruprecht) Batters, 1902: 55.

Cryptonemia capensis Schmitz, a Tyson record from Kowie.

Cryptonemia natalensis (J. Agardh) Chiang, 1970. *Univ. Calif. Publs Bot.*, 58: 57, figs. 27, 28 a–c, 29a; pl. 7.

Meristotheca natalensis J. Agardh, 1876: 583.

Cryptonemia papenfussii Chiang, 1970. *Univ. Calif. Publs Bot.* 58: 54, figs. 25 a–d, 26; pl. 6b.

Cryptonemia rigida Harvey ex J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 163.

Carpopeltis maillardii (Montagne et Millardet) Chiang, 1970: 68.

Cryptopleura lacerata uncinata Kuetzing, 1866. *Tabulae phycologicae* ... 16, pl. 25, fig. e.

Acrosorium uncinatum (Turner) Kylin, 1924: 78.

Cryptymenia hieroglyphica (J. Agardh) Schmitz in Engler and Prantl. 1897. *Die Natürl. Pflanzenfam.* p. 511.

Phyllymenia belangeri (Bory) Setchell et Gardner, 1936: 473.

Cutleria naevosa Hering in Kuetzing, 1849. *Species algarum*, p. 559.

Dictyota naevosa (Suhr) J. Agardh, 1848: 95.

Cyrtymenia cornea (Kuetzing) Schmitz, 1896. *Nuova notarisia* 7: 16.

Pachymenia cornea (Kuetzing) Chiang, 1970: 22, fig. 8 a–c, pl. 5a.

Cyrtymenia hieroglyphica (J. Agardh) Schmitz in Schmitz and Hauptfleisch, 1897, p. 511.

Phyllymenia belangeri (Bory) Setchell et Gardner, 1936: 473.

Cystophora fibrosa Simons, 1970. *Div. Sea Fisheries Investig. Report* No. 88: 1, figs. 1–2.

Cystophyllum muricatum (C. Agardh) J. Agardh, 1848. *Species genera et ordines algarum* ... 1, p. 231.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Cystophyllum muricatum var. *virgatum* Endlicher et Diesing) J. Agardh, 1848. *Species genera et ordines algarum* ... 1, p. 231.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Cystophyllum trinode (Forsskål) J. Agardh, 1848. *Species genera et ordines algarum* ... 1, p. 230.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Cystophyllum virgatum (Endlicher et Diesing) Rabenhorst in Hohenacker, 1852. *Algae marinae siccatae*. Lief 2, No. 73.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Cystoseira articulata J. Agardh, 1848. *Species genera et ordines algarum* ... 1. p. 216.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Cystoseira ericoides (Linnaeus) J. Agardh, 1848. *Species genera et ordines algarum* ... 1, p. 221.

Papenfuss (1943: 84) excludes this species from South Africa.

Cystoseira latifrons (Kuetzing) De Toni, 1895. *Sylloge algarum* ... p. 176.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Cystoseira muricata C. Agardh, 1820. *Species algarum* ... 1(1): 66.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Cystoseira myrica (S.G. Gmelin) C. Agardh, 1820. *Species algarum* ... 1(1): 22.

Papenfuss and Jensen, 1967. *Blumea* 15(1): 22.

Fucus myrica S.G. Gmelin, 1768: 88, pl. 3, fig. 1.

Phyllacantha myrica (S.G. Gmelin) Kuetzing, 1849: 598.

Fucus seticulosus Forsskål, 1775: cxxv and 190.

Fucus antennulatus Delile, 1813: 80.

Polycladia commersonii Montagne in Kuetzing, 1849: 769.

Cystoseira prolifera J. Agardh, 1848. *Species genera et ordines algarum* ... 1, p. 215.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Cystoseira trinodis (Forsskål) C. Agardh, 1820. *Species algarum* ... 1(1): 67.

Papenfuss and Jensen, 1967. *Blumea* 15(1): 21.

Fucus trinodis Forsskål, 1775: cxxv and 192.

Cystophyllum trinode (Forsskål) J. Agardh, 1848: 230.

Sirophysalis trinodis (Forsskål) Kuetzing, 1849: 603.

Fucus onustus var. *trinodis* (Forsskål) Mertens, 1819: 183.

Blossevillea arabica Kuetzing, 1849: 630.

Cystoseira trinodis var. *confluens* C. Agardh, 1824: 286.

Sirophysalis trinodis var. *confluens* (C. Agardh) Kuetzing, 1849: 603.

Sirophysalis trinodis var. *enodis* Kuetzing, 1860: 22.

Sirophysalis muricata (C. Agardh) Kuetzing, 1843: 368.

Cystoseira muricata C. Agardh, 1820: 66.

Fucus muricatus Turner, 1809: 108 [non Gmelin, 1768: 111 = *Eucheuma muricatum* (Gmelin) Weber-van Bosse 1928: 413].

Cystophyllum muricatum (C. Agardh) J. Agardh, 1848: 231.

Cystoseira virgata Endlicher et Diesing, 1845: 268.

Sirophysalis virgata (Endlicher et Diesing) Kuetzing, 1849: 603.

Cystophyllum virgatum (Endlicher et Diesing) Rabenhorst, 1852: No. 73.

Cystophyllum muricatum var. *virgatum* (Endlicher et Diesing) J. Agardh, 1848: 231.

Cystoseira trinodis var. *confluens* C. Agardh, 1824. *Systema algarum*, p. 286.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Cystoseira triquetra (Linnaeus) C. Agardh, 1820. *Species algarum* ... 1(1): 61.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Cystoseira virgata Endlicher et Diesing, 1845. *Bot. Ztg.* 3: 268.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Dasya callithamnion sensu Barton, 1893, p. 175 [non (Sonder) Harvey = *Heterosiphonia callithamnion* (Sonder) Falkenberg].

Papenfuss (1968: 274) discusses this record of Barton's.

Heterosiphonia crispa (Suhr) Falkenberg, 1901: 642.

Dasya collabens sensu Barton, 1893, p. 175, [non J.D. Hooker et Harvey].

Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Dasya crispa Suhr, 1840. *Flora, Jena* 23: 279.

Heterosiphonia crispa (Suhr) Falkenberg, 1901: 642.

Dasya dubia Suhr, 1840. *Flora, Jena* 23: 279.

Heterosiphonia dubia (Suhr) Falkenberg, 1901: 639.

Dasya pellucida Harvey, 1847. *Nereis australis* ... p. 67, pl. 27.

Heterosiphonia pellucida (Harvey) Falkenberg, 1901: 635.

Dasya pinnatifolia (Suhr) Schmitz, 1893. *Ber. dt. bot. Ges.* 11: 230.

Dasyopsis pinnatifolia (Suhr) Schmitz, 1893: 231.

Dasya scoparia Harvey ex J. Agardh, 1841. *Linnaea* 15: 34.

Dasycladus ramosus Chamberlain, 1958. *Jl. S. Afr. Bot.* 24(3): 119, pl. 2, figs. 1–2.

Dasyclonium palmatifidum (Grunow) Scagel, 1962. *Proc. 9th Pacific Sc. Congress 1957*, 4: 241.

Polyzonia palmatifida Grunow, 1873/74: 50.

Euzoniella palmatifida (Grunow) Cuoghi-Costantini, 1912: 183.

Dasyopsis pinnatifolia (Suhr) Schmitz, 1893. *Ber. dt. bot. Ges.* 11: 231.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 270.

Ptilota ? pinnatifolia Suhr, 1834: 732.

Carpoblepharis pinnatifolia (Suhr) Kuetzing, 1847: 1.

Dasya pinnatifolia (Suhr) Schmitz, 1893: 230, fig. 1.

Sarcomenia ? sandersonii Harvey ex J. Agardh, 1896: 137.

Dasyphila cryptocarpa (Holmes) Schmitz, 1896. *Nuova Notarisia* 7: 8.

Ptilota cryptocarpa Holmes, 1894: 337.

Dawsonia vittata Bory in Bélanger, 1834. *Voyage aux Indes-Orientales* ... p. 171.

Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Delesseria caulescens Lamouroux, 1813. *Essai*, p. 38.

Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Delesseria filicina Lamouroux, 1813: 38.

Grateloupia filicina (Lamouroux) C. Agardh, 1822: 223.

Delesseria kylinii ? Papenfuss ined. A Stephenson (1948) record.

Delesseria leprieurii Montagne, 1842. *Annls Sci. nat. Bot.* ser. 2, 18: 196, pl. 13.

Caloglossa leprieurii (Montagne) J. Agardh, 1876: 499.

Delesseria ovifolia Suhr in Kuetzing, 1866. *Tabulae phycologicae* ... 16: 8, pl. 19, fig. a–c.

Halicnide ? ovifolia (Suhr) De Toni 1900: 724.

Delesseria pristoides Lamouroux, 1813. *Ann. Mus. natn. Hist. nat., Paris* 20: 38.

Gelidium pristoides (Turner) Kuetzing, 1843: 407.

Delesseria ruscifolia (Turner) Lamouroux, 1813. *Ann. Mus. natn. Hist. nat., Paris* 20: 124.

Apoglossum ruscifolium (Turner) J. Agardh, 1898: 194.

Delesseria saccata Lamouroux, 1813. *Ann. Mus. natn. Hist. nat., Paris* 20: 125 (in part).

Chaetangium ovale (Suhr) Papenfuss, 1940: 213.

Delesseria venosa (Linnaeus) Lamouroux, 1813: 125.

Hymenena venosa (Linnaeus) Kylin, 1924: 83.

Delisea flaccida (Suhr) Papenfuss, 1940. *Bot. Notiser* 1940: 214.

Sphaerococcus flaccidus Suhr, 1834: 728.

Chondrodon flaccidus Kuetzing, 1868: 25.

Calocladia suhrii J. Agardh, 1841: 21.

Delisea suhrii J. Agardh, 1863: 783.

Delisea suhrii J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 783.

Delisea flaccida (Suhr) Papenfuss, 1940: 214.

Derbesia hollenbergii Taylor, 1945. *Allan Hancock Pacific Expedition* 12: 75, pl. 1, figs. 7–9.

Papenfuss and Egerod, 1957. *Phytomorphology* 7(1): 85.

Derbesia longifructa Taylor, 1945. *Allan Hancock Pacific Expedition* 12: 74, pl. 1, figs. 3–6.

Papenfuss and Egerod, 1957. *Phytomorphology* 7(1): 85.

Derbesia ryukyuensis Yamada et Tanaka, 1938: 64.

Derbesia prolifica Taylor, 1945. *Allan Hancock Pacific Expedition* 12: 75, pl. 2, figs. 1–6.

Papenfuss and Egerod, 1957. *Phytomorphology* 7(1): 85.

Derbesia ryukyuensis Yamada et Tanaka, 1938. *Sci. Pap. Inst. algol. Res. Hokkaido Univ.* 2: 64, fig. 5.

Papenfuss and Egerod, 1957. *Phytomorphology* 7(1): 85.

Derbesia longifructa Taylor, 1945: 74.

Dermatolithon corallinae (Crouan frat.) Foslie in Boergesen, 1902. *The marine algae of the Faeröes* 2: 402.

Lithophyllum pustulatum (Lamouroux) Foslie, 1904: 8.

Dermatolithon pustulatum f. *ascripticum* (Foslie) Foslie ex De Toni, 1924: 665.

Lithophyllum pustulatum f. *corallinae* (Crouan frat.) Foslie, 1905: 118.

Melobesia pustulata Lamouroux, 1816: 315.

Dermatolithon pustulatum (Lamouroux) Foslie, 1900. *K. norske Vidensk. Selsk. Skr.* 5: 21.

Dermatolithon corallinae (Crouan frat.) Foslie in Boergesen, 1902: 402.

Dermatolithon pustulatum f. *ascriptum* (Foslie) ex De Toni, 1924. *Sylloge algarum* ... 6: 665.

Dermatolithon corallinae (Crouan frat.) Foslie in Boergesen, 1902: 402.

Desmarestia aculeata (Linnaeus) Lamouroux, 1813. *Essai,* p. 25.

Papenfuss (1943: 83) states that this species was incorrectly reported for South Africa by Barton (1893: 111) and is thus excluded from the South African flora.

Desmarestia firma Skottsberg in Nordenskjöld, 1907. *Wissenschaftliche Ergebnisse der schwedischen Südpolar-Expedition* 1901–1903 ... 4(6): 21.

Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 82.

Desmarestia ligulata (Lightfoot) Lamouroux, 1813: 25 nom. illegit.

Sporochnus herbaceus var. *firma* C. Agardh, 1824: 261 (in part).

Desmarestia ligulata var. *firma* J. Agardh, 1848: 169.

Desmarestia ligulata (Lightfoot) Lamouroux var. *herbacea* (Turner) J. Agardh, 1848: 169.

Desmarestia herbacea f. *latior* Kuetzing, 1859: 42.

Desmarestia herbacea f. *latior* Kuetzing, 1859. *Tabulae phycologicae* ... 9: 42, pl. 100, fig. c.

Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 82.

Desmarestia firma Skottsberg, 1907: 21.

Desmarestia ligulata (Lightfoot) Skottsberg, 1813: 25.

Desmarestia firma Skottsberg, 1907: 21.

Desmarestia ligulata var. *firma* J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 169.

Desmarestia firma Skottsberg, 1907: 21.

Desmarestia ligulata (Lightfoot) Lamouroux var. *herbacea* (Turner) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 169.

Recorded by Barton (1893). This variety is possibly referable to *Desmarestia firma* (personal communication from G.F. Papenfuss 1970).

Desmia hornemannii Lyngbye, 1819. *Tent. Hydr. Dan.,* p. 35, pl. 7, fig. c.

Chondrococcus hornemannii (Lyngbye) Schmitz, 1896: 170.

Desmia tripinnata (Hering) J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 640.

Papenfuss, 1940. *Bot. Notiser* 1940: 218.

Silva, 1952, *Univ. Calif. Publs Bot.* 25(4): 304, discusses the status of *Chondrococcus* / *Desmia* and says, in a personal communication (1970) that the above species should be known as **Chondrococcus tripinnatus** (Hering) Delf et Michell, 1921: 118.

Dicty(o)menia fimbriata Martens mscr. [non Greville].

Kuetzingia natalensis J. Agardh, 1863: 1099.

Dictymenia stephensonii Papenfuss, 1947. *Univ. Calif. Publs Bot.* 23(1): 4, pl. 1, fig. 4; pl. 2, figs. 12,13.

Dictyopteris delicatula Lamouroux, 1809. *Nouva Bull. sci. Soc. Philomath. Paris* 1(20): 332, pl. 6, fig. 2b.

Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 82.

Dictyopteris dichotoma (Suhr) Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd., 2, 34(9): 19.

Haliseris dichotoma Suhr, 1840: 259.

Dictyopteris ligulata (Suhr) Schmidt, 1938 Hedwigia 77: 219.

Haliseris ligulata Suhr, 1934: 724.

Dictyopteris longifolia Papenfuss ined., in Isaac, 1956. *Jl S. Afr. Bot.* 22(4): 177, pl. 39.

Dictyopteris macrocarpa (Areschoug) Schmidt, 1938. *Hedwigia* 77: 219.

Haliseris macrocarpa Areschoug, 1847: pl. 5.

Dictyopteris polypodioides (De Candolle) Lamouroux, 1809. *Nouv. Bull. Soc. Philomath.*, Paris 1: 332.

Fucus polypodioides Desfontaine, 1800: 421, [not *F. polypodioides* S.G. Gmelin, 1768: 186].

Ulva polypodioides De Candolle in Lamarck et De Candolle, 1805: 15.

Haliseris polypodioides (De Candolle) C. Agardh, 1820: 142.

Dictyopteris serrata (Areschoug) Hoyt, 1920. *Bull. U.S. Bur. Fish.* 36: 460.

Haliseris serrata Areschoug, 1847: 4, pl. 7.

Dictyosphaeria cavernosa (Forsskål) Boergesen, 1932: 2, recorded from Inhaca in MacNae & Kalk, 1958.

Dictyosphaeria versluysii Weber-van Bosse, 1905. *Nuova Notarisia* 16: 114.

Papenfuss and Egerod, 1957. *Phytomorphology* 7(1): 84.

Dictyota bartayresii Lamouroux, 1809: 331.

Dictyota denticulata (Kuetzing) Kuetzing, 1849. *Species algarum*, p. 556.

Dictyota dichotoma (Hudson) Lamouroux, 1809: 331.

Dictyota dichotoma (Hudson) Lamouroux, 1809. *Nouv. Bull. sci. Soc. Philomath. Paris* 1(20): 331.

Ulva dichotoma Hudson, 1762: 476.

Dictyota denticulata (Kuetzing) Kuetzing, 1849: 556.

Dictyota dichotoma var. *implexa* (Desfontaine) Gray, 1821. *Natural arrangements of British plants* 1: 341.

Dictyota dichotoma (Hudson) Lamouroux var. **intricata** (C. Agardh) Greville, 1830: 58.

Dictyota dichotoma var. *implexa* (Lamouroux) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 92.

Dictyota dichotoma (Hudson) Lamouroux var. **intricata** (C. Agardh) Greville, 1830: 58.

Dictyota dichotoma (Hudson) Lamouroux var. **intricata** (C. Agardh) Greville, 1830. *Algae britannicae,* p. 58.

Papenfuss, 1944. *Farlowia* 1: 338.

Zonaria dichotoma var. *intricata* C. Agardh, 1820: 134.

Dictyota dichotoma var. *implexa* (Desfontaine) Gray, 1821: 341.

Dictyota dichotoma var. *implexa* (Lamouroux) J. Agardh, 1848: 92.

Fucus implexus Desfontaine, 1800: 423.

Dictyota implexa (Desfontaine) Lamouroux, 1809: 331.

Dictyota fasciola (Roth) Lamouroux in Desvaux, 1809. *Journ. Bot.* 2: 41.

(See Delf and Michell, 1921: 101, for reference to this species).

Dictyota grandis Kuetzing, 1849. *Species algarum,* p. 557.

Dictyota naevosa (Suhr) J. Agardh, 1848: 95.

Dictyota implexa (Desfontaine) Lamouroux, 1809. *Nouv. Bull. sci. Soc. Philomath. Paris* 1: 331.

Dictyota dichotoma (Hudson) Lamouroux var. **intricata** (C. Agardh) Greville, 1830: 58.

Dictyota inscripta J. Agardh, see Delf and Michell (1921: 101) for reference to this record of Barton's.

Dictyota interrupta Lamouroux, 1813. *Ann. Mus. natn. Hist. nat., Paris* 20: 272, pl. 12, fig. 1.

Zonaria subarticulata (Lamouroux) Papenfuss, 1944: 339.

Dictyota linearis C. Agardh, see Delf and Michell (1921: 101) for reference to this record of Barton's.

Dictyota liturata J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 95.

Dictyota pappeana Kuetzing, 1849: 557.

Dictyota marginata Areschoug, 1851. *Phyceae capenses,* p. 23.

Dilophus suhrii (Kuetzing) Papenfuss, 1940: 206.

Dictyota naevosa (Suhr) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 95.

De Toni, 1895: 266, lists the following synonyms:

Zonaria naevosa Suhr, 1834: 723, pl. 1, fig. 4.

Dictyota polycarpa Sonder in Kuetzing, 1859: 14, pl. 31.

Dictyota grandis Kuetzing, 1849: 557.

Cutleria naevosa Hering in Kuetzing, 1849: 559.

In Delf and Michell (1921: 101) **Dictyota naevosa** is listed as *Dictyota naevosa* Suhr.

Dictyota pappeana Kuetzing, 1849. *Species algarum,* p. 557. A Barton (1893) record.

Dictyota liturata J. Agardh, 1848: 95.

Dictyota pardalis Kuetzing, 1859. *Tabulae phycologicae* ... 9: 16, pl. 39, fig. 2.

Chamberlain (1958: 142) regards this as a tentative identification.

Dictyota polycarpa Sonder in Kuetzing, 1859. *Tabulae phycologicae* ... 9: 14, pl. 31.

Dictyota naevosa (Suhr) J. Agardh, 1848: 95.

Dictyota polypodioides Lamouroux 1822: 15.

Stoecheospermum polypodioides (Lamouroux) J. Agardh, 1851: 100.

Dictyota prolifera Suhr, 1839. *Flora, Jena* 22: 66, pl. 1, fig. 39.

Dilophus suhrii (Kuetzing) Papenfuss, 1940: 206.

Dictyota subarticulata Lamouroux, 1809. *Nouv. Bull. sci. Soc. Philomath. Paris* 1(20): 331 (pro parte); 1809 *Journ. de Bot.* 2: 41 (pro parte).

Zonaria subarticulata (Lamouroux) Papenfuss, 1944: 339.

Dictyota variegata Lamouroux, 1809. *Nouv. Bull. sci. Soc. Philomath. Paris* 1(2): 331.

Lobophora variegata (Lamouroux) Womersley, 1967: 221.

Dicurella affinis J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 632.

Trematocarpus affinis (J. Agardh) De Toni, 1900: 419.

Dicurella flabellata (J. Agardh) J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 632.

Trematocarpus flabellatus (J. Agardh) De Toni, 1900: 418. (Personal communication from R. Simons (1982).

Dicurella fragilis (C. Agardh) J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 630.

Kylin, 1932. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 26(6): 55.

Searles, 1968. *Univ. Calif. Publs Bot.* 43: 69.

Trematocarpus fragilis (C. Agardh) De Toni, 1900: 418. (Personal communication from R. Simons (1982).

Dicurella scutellata pro parte Papenfuss, 1940. *Bot. Notiser* 1940: 219.

Searles, 1968: *Univ. Calif. Publs Bot.* 43: 73.

Trematocarpus affinis (J. Agardh) De Toni, 1900: 419. (Personal communication from R. Simons (1982).

Dicurella scutellata pro parte Papenfuss, 1940: 219.

Trematocarpus flabellatus (J. Agardh) De Toni, 1900: 418. (Personal communication from R. Simons (1982).

Digenea simplex (Wulfen) C. Agardh, 1822. *Species algarum* ... 1(2): 389.

Conferva simplex Wulfen, 1803: 17.

Digenea subarticulata Simons, 1970. *Div. Sea Fisheries Investig. Report* No. 88: 10, fig. 9, fig. 11 a–d.

Digeneopsis subopaca Simons, 1970. *Div. Sea Fisheries Investig. Report* No. 88: 11, fig. 10, fig. 11 e–g.

Dilophus suhrii (Kuetzing) Papenfuss, 1940. *Bot. Notiser* 1940: 206.

Stoechospermum suhrii Kuetzing, 1859: 17.

Zonaria marginata Suhr, 1834: 723 [*non* C. Agardh, 1824: 266].

Dictyota marginata Areschoug, 1851: 23.

Dictyota prolifera Suhr 1839: 66 [*non* Lamouroux, 1809: 331].

Dumontia ovalis Suhr, 1840. *Flora, Jena* 23: 274.

Chaetangium ovale (Suhr) Papenfuss, 1940: 213.

Duthiea setchellii Manza, 1937. *Proc. natn. Acad. Sci., U.S.A.,* 23(2): 48.

Arthrocardia duthiae Johansen, 1969: 58.

Duthiophycus setchellii (Manza) Tandy, 1938. *J. Bot., Lond.* 76: 115.

Arthrocardia duthiae Johansen, 1969: 58.

Echinocaulon, see entry for **Gelidiella acerosa** (Forsskål) Feldmann et Hamel, 1934: 533.

Ecklonia biruncinata (Bory) Papenfuss, 1944. *Farlowia* 1: 341.

Laminaria biruncinata Bory, 1826: 190.

Ecklonia exasperata (Turner) J. Agardh, 1848: 146.

Fucus radiatus β exasperatus Turner, 1809: 161, pl. 134.

See also Womersley (1967: 248) for discussion on *Ecklonia radiata* (C. Agardh) J. Agardh, 1848: 146.

Ecklonia buccinalis (Linnaeus) Hornemann, 1828. *K. danske Vidensk. Selsk. Skr.* 3: 388, pl. 3.

Ecklonia maxima (Osbeck) Papenfuss, 1940: 7.

Ecklonia exasperata (Turner) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 146.

Ecklonia biruncinata (Bory) Papenfuss, 1944: 341.

Womersley (1967: 248) assigns *Ecklonia exasperata* (Turner) J. Agardh to **Ecklonia radiata** (C. Agardh) J. Agardh, 1848: 146.

Ecklonia fastigiata (Endlicher et Diesing) Papenfuss, 1940. *Bot. Notiser* 1940: 207, fig. 6.

Pinnaria fastigiata Endlicher et Diesing, 1845: 289.

Ecklonia maxima (Osbeck) Papenfuss, 1940. *Symb. bot. upsal.* 4(3): 7.

Fucus maximus Osbeck, 1757: 283.

Ecklonia buccinalis (Linnaeus) Hornemann, 1828: 388.

Fucus buccinalis Linnaeus, 1771: 312.

Ecklonia radiata (C. Agardh) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 146.

Womersley (1967: 248) gives the complete synonomy for this species which is listed below. The synonyms mentioned elsewhere in this catalogue are marked with an asterisk. The remaining ones are merely recorded here without comment.

Laminaria radiata C. Agardh.

Fucus radiata Turner 1809: 161, pl. 134.

* *Ecklonia exasperata* (Turner) J. Agardh, 1848: 146.

Ecklonia lanciloba Sonder.

* *Ecklonia richardiana* J. Agardh, 1848: 147.

Ecklonia stenophylla J. Agardh.

Capea radiata (Turner) Endlicher.

Capea biruncinata (Bory) Montagne.

Capea richardiana (J. Agardh) Kuetzing.

Ecklonia richardiana J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 147.

Papenfuss, 1940. *Bot. Notiser* 1940: 208.

Ecklonia radiata (C. Agardh) J. Agardh, 1848: 146.

See Womersley, 1967: 248.

Ectocarpus antillarum Grunow, 1870. *Algen Novara* ... p. 46, pl. 4, fig. 2.

Bachelotia antillarum (Grunow) Gerloff, 1959: 38.

Ectocarpus confervoides (Roth) Le Jolis, 1863. *Mém. Soc. Imp. Sci. nat., Cherbourg,* 10: 75.

Ceramium confervoides Roth, 1797: 151.

Ectocarpus crinitus Carmichael ex Harvey in Hooker, 1833: 326.

Acinetospora crinita (Carmichael ex Harvey in Hooker) Kormann, 1953: 205.

Ectocarpus granulosus C. Agardh, 1820. *Species algarum* ... 1(1): 45.

It is doubtful whether this species recorded by Barton (1893) belongs to the South African flora.

Ectocarpus hincksiae Harvey, 1841. *Manual of British marine Algae,* p. 40.

Giffordia hincksiae (Harvey) Hamel, 1939, p. xv.

A record of Delf and Michell, 1921: 96.

Ectocarpus irregularis Kuetzing, 1845. *Phycologia germanica* ... p. 234.

Isaac and Chamberlain, 1958. *Jl S. Afr. Bot.* 24 (3): 140.

Feldmannia irregularis (Kuetzing) Hamel, 1939: xvii fig. 61f.

Ectocarpus mitchellae Harvey, 1851: 142, pl. xiiG.

Giffordia mitchellae (Harvey) Hamel, 1939: p. xiv, fig. 61 CD.

Ectocarpus nanus Levring, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(9): 18, fig. 8e.

Ectocarpus parvulus Kuetzing, 1849. *Species algarum,* p. 457.

A record of Barton (1893) which is of doubtful status.

Ectocarpus siliculosus (Dillwyn) Lyngbye, 1819. *Tentamen hydrophytologiae danicae* ... p. 131, pl. 43.

Ectocarpus simpliciusculus C. Agardh, 1827. *Flora* 10 (40): 639.

Feldmannia irregularis (Kuetzing) Hamel, 1939: xvii, fig. 61,f.

Ectoclinum kowiense Holmes, 1896. *J. Bot., Lond.* 34: 349.

Rhodophyllis reptans (Suhr) Papenfuss, 1956: 71.

Encoelium clathratum C. Agardh, 1822. *Species algarum* ... 1(2): 412.

Hydroclathrus clathratus (C. Agardh) Howe in Britton and Millspaugh, 1920: 590.

Endarachne binghamiae J. Agardh, 1896. *Lunds Univ. Årsskr.* Afd. 2, 7(2): 27, fig. 5.

Wynne, 1969. *Univ. Calif. Publs Bot.* 50: 39, pl. 20 a–d.

Enteromorpha bulbosa (Suhr) Montagne, 1846: 3.

Papenfuss, 1940: 4; also 1964: 2.

Solenia bulbosa Suhr, 1839: 72.

Enteromorpha clathrata (Roth) Greville, 1830: 181.

Conferva clathrata Roth, 1806: 175.

A Barton (1893) record, see Delf and Michell, 1921: 92.

Enteromorpha compressa (Linnaeus) Greville, 1830. *Algae britannicae* p. 180.

Papenfuss, 1940. *Symb. bot. upsal.* 4(3): 4.

Ulva compressa Linnaeus 1753.

Ulva filiformis Thunberg, 1794: 180.

Ulva filosa Thunberg, 1807–1820: 750.

Enteromorpha flexuosa (Wulfen in Roth) J. Agardh, 1883. *Lunds Univ. Årsskr.*, Afd. 4, 19(2): 126.

Conferva flexuosa Wulfen in Roth, 1797–1806: 188.

Enteromorpha intestinalis (Linnaeus) Link in Nees, 1820. *Hora physicae berolinenses* ... p. 5.

Ulva intestinalis Linnaeus, 1753: 1163.

Enteromorpha linza (Linnaeus) J. Agardh, 1883: 134, pl. 4, figs 110–112. See Delf and Michell (1921: 92) for mention of this record of Barton (1893).

Ulva linza Linnaeus 1753: 1163.

Enteromorpha micrococca Kuetzing, 1856. *Tabulae Phycologicae* ... 6: 11, pl. 30, fig. 2.

Blidingia minima (Naegeli ex Kuetzing) Kylin, 1947: 8.

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Blidingia minima (Naegeli ex Kuetzing) Kylin, 1947: 8.

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Eucheuma spinosum (Linnaeus) J. Agardh, 1847: 16.

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Eucheuma muricatum (Gmelin) Weber-van Bosse, 1928. *Liste alg. Siboga, Rhodophyceae*, 3: 413.

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Axillariella constricta (J. Agardh) Silva, 1959: 63.

Fucodium tuberculatum var. *dumosa* J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 205.
Bifurcariopsis capensis (Areschoug) Papenfuss, 1940: 212.

Fucus acerosus Forsskål, 1775: 190.
Gelidiella acerosa (Forsskål) Feldmann et Hamel, 1934: 533.

Fucus acicularis var. *ustulatus* Turner, 1809: 143.
Caulacanthus ustulatus (Turner) Kuetzing, 1843: 395

Fucus acinarius Thunberg, 1794. *Prodromus plantarum capensium* ... p. 181.
Sargassum heterophyllum (Turner) C. Agardh, 1820: 21.

Fucus amansii Lamouroux, 1805. *Dissertations* ... p. 48, pl. 26, figs 2–5.
Gelidium amansii (Lamouroux) Lamouroux, 1813: 129.

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Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

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Bifurcariopsis capensis (Areschoug) Papenfuss, 1940: 212.

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Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

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Caulerpa racemosa (Forsskål) J. Agardh var. **turbinata** (J. Agardh) Eubank, 1946: 420.

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Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

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Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Fucus cirrhosus Turner, 1808. *Fuci* I ... p. 141, pl. 63.
Plocamium corallorhiza (Turner) Harvey in Hooker et Harvey, 1845: 542.

Fucus clathratus Bory mscr.
Hydroclathrus clathratus (C. Agardh) Howe, 1920: 590.

Fucus clavifer Turner, 1808. *Fuci* I ... p. 126, pl. 57.
Caulerpa racemosa (Forsskål) J. Agardh var. **racemosa** (see Papenfuss and Egerod, 1957: 88).

Fucus confervoides Hudson, 1762. *Flora anglica*, p. 474.
Gracilaria verrucosa (Hudson) Papenfuss, 1950: 195.

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Axillariella constricta (J. Agardh) Silva, 1959: 63.

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Polyopes constrictus (Turner) J. Agardh, 1851: 239.

Fucus corallorhiza Turner, 1809. *Fuci* II ... p. 70, pl. 96.
Plocamium corallorhiza (Turner) Harvey in Hooker et Harvey, 1845: 542.

Fucus cornutus Turner, 1819. *Fuci* IV ... p. 152, pl. 258.
Plocamium cornutum (Turner) Harvey, 1847: 123.

Fucus cupressoides West ex Vahl, 1802: 38.
Caulerpa cupressoides (West ex Vahl) C. Agardh var. **turneri** Weber-van Bosse, 1898: 330.

Fucus denticulatus Burman f. 1768: 28.
Eucheuma denticulatum (Burman) Collins et Hervey, 1917: 106.

Fucus dilatatus Turner, 1819. *Fuci* IV ... p. 57, pl. 219.
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Gigartina stiriata (Turner) J. Agardh, 1851: 277.

Fucus erinaceus Turner, 1808. *Fuci* I ... p. 55, pl. 26.
Chaetangium erinaceum (Turner) Papenfuss, 1952: 173.

Fucus fascia O.F. Mueller, 1778. *Flora Danica* 5(13): 7, pl. 768.
Petalonia fascia (O.F. Mueller) Kuntze, 1898: 419.

Fucus flaccidus Turner, 1808. *Fuci* I ... pl. 61, (non illegit.).
Carpoblepharis flaccida (C. Agardh) Kuetzing, 1849: 690.

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Neurymenia fraxinifolia (Mertens ex Turner) J. Agardh, 1863: 1135.

Fucus heterophyllus Turner, 1809. *Fuci* II ... p. 62, pl. 92 (*pro parte*).
Sargassum heterophyllum (Turner) C. Agardh, 1820: 21.

Fucus implexus Desfontaine, 1800. *Flora atlantica* 2: 423.

Dictyota dichotoma (Hudson) Lamouroux var. **intricata** (C. Agardh) Greville, 1830: 58.

Fucus incisifolius Turner, 1819. *Fuci* IV ... p. 39, pl. 214.

Sargassum heterophyllum (Turner) C. Agardh, 1820: 21.

Fucus interruptus (Lamouroux) Turner, 1819. *Fuci* IV ... p. 114, pl. 245.

Zonaria subarticulata (Lamouroux) Papenfuss, 1944: 339.

Fucus koelreuteri Linnaeus, 1763. *Syst. nat.* 2: 1388.

Gigartina stiriata (Turner) J. Agardh, 1851: 277.

Fucus laceratus var. ζ *uncinatus* Turner, 1808. *Fuci* I ... p. 151, pl. 68, figs c–d.

Acrosorium uncinatum (Turner) Kylin, 1924: 78.

Fucus longifolius Turner, 1809. *Fuci* II ... p. 88, pl. 104.

Sargassum longifolium (Turner) C. Agardh, 1820: 17.

Fucus loreus Thunberg, 1794. *Prodromus plantarum capensium* ... p. 181.

Sargassum longifolium (Turner) C. Agardh, 1820: 17.

Fucus maxillosus Poiret in Lamarck, 1808. *Encyclopédie Méthodique* ... p. 389.

Plocamium maxillosum (Poiret) Lamouroux, 1813: 138.

Fucus maximus Osbeck, 1757. *Dagbok öfvers en Ostind* Resa, p. 283.

Ecklonia maxima (Osbeck) Papenfuss, 1940: 7.

Fucus minimus Hering, 1841. *Diagnoses algarum novarum ... Ann. Mag. nat. Hist.* 8: 92.

Chnoospora minima (Hering) Papenfuss, 1956: 69.

Fucus muricatus Gmelin, 1768. *Historia fucorum,* p. 111, pl. 6, fig. 4.

Eucheuma denticulata (Burman f.) Collins et Hervey, 1917: 106.

Fucus muricatus Turner, 1809. *Fuci* II ... p. 108, pl. 112 [non Gmelin, 1768, p. 111, pl. 6 = *Eucheuma muricatum* (Gmelin) Weber-van Bosse].

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Fucus musciformis Wulfen in Jacquin, *Collect.* III, p. 154, pl. 14, fig. 3.

Hypnea musciformis (Wulfen) Lamouroux, 1813: 131.

Fucus myrica S.G. Gmelin, 1768. *Historia fucorum,* p. 88, pl. 3, fig. 1.

Cystoseira myrica (S.G. Gmelin) C. Agardh, 1820: 53.

Fucus obtusus Hudson 1762: 586.

Laurencia obtusa (Hudson) Lamouroux, 1813: 130.

Fucus onustus var. *trinodis* (Forsskål) Mertens, 1819. *Mém. Mus. natn. Hist. nat., Paris* 5: 183.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Fucus opuntia Goodenough et Woodward 1797: 219 nom. illegit.

Catenella caespitosa (Withering) L. Irvine in Parke et Dixon, 1976: 590.

Fucus ornatus Linnaeus, 1771. *Mantissa plantarum,* 2: 312.

Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Fucus ornatus Thunberg, 1794. *Prodromus plantarum capensium* ... p. 181 (in part); 1807–1820. *Flora capensis*, p. 753 (in part).

Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Fucus pistillatus Gmelin, 1768. *Historia fucorum,* p.159, pl. 18, fig. 1.

Gigartina pistillata (Gmelin) Stackhouse, 1809: 74.

Fucus pinastroides Gmelin 1768: 127, pl. II, fig. 1.

Halopithys pinastroides (Gmelin) Kuetzing, 1843: 433, pl. 52, fig. II.

Fucus platycarpus Turner, 1811. *Fuci* III ... p. 23, pl. 144.

Botryoglossum platycarpum (Turner) Kuetzing, 1843: 446.

Fucus polypodioides Desfontaine, 1800: 421: not *Fucus polypodioides* S.G. Gmelin, 1768: 186.

Dictyopteris polypodioides (De Candolle) Lamouroux, 1809: 332.

Fucus pristoides Turner, 1808. *Fuci* I ... p. 83, pl. 39.

Gelidium pristoides (Turner) Kuetzing, 1843: 407.

Fucus pseudopalmatus Lamouroux, 1805. *Dissertations* ... p. 29, pl. 23, fig. 2.

Silva (1952: 265) discusses the complete synonomy.

Rhodymenia pseudopalmata (Lamouroux) Silva, 1952: 265.

Fucus racemosus Forsskål, 1775. *Flora aegyptico-arabica,* p. 191.

Caulerpa racemosa (Forsskål) J. Agardh, 1872: 35.

Fucus radiata Turner, 1809. *Fuci* II ... p. 161, pl. 134 [nom illegit; not *F. radiatus* Good and Woodward, 1797]. See Womerseley (1967: 248) in connection with **Ecklonia radiata** (C. Agardh) J. Agardh, 1848: 146.

Fucus radiatus β *exasperatus* Turner, 1809. *Fuci* II ... p. 161, pl. 134.

Ecklonia biruncinata (Bory) Papenfuss, 1944: 341.

Fucus radula Esper, 1802. *Icones fucorum*, p. 3, pl. 113.

Gigartina radula (Esper) J. Agardh, 1851: 278.

Fucus repens Lightfoot, 1792. *Flora Scotica* 2: 961.

Catenella caespitosa (Withering) L. Irvine in Parke et Dixon, 1976: 590.

Fucus rigidus Vahl, 1802: 46.

Gelidiella acerosa (Forsskål) Feldmann et Hamel, 1934: 533.

Fucus ruscifolius Turner, 1802. *Trans. Linn. Soc. Lond.* 6: 127, pl. 8, figs 1–2.

Apoglossum ruscifolium (Turner) J. Agardh, 1898: 194.

Fucus scalpelliformis Brown ex Turner, 1811. *Fuci* III ... p. 95, pl. 174.

Caulerpa scalpelliformis (Brown ex Turner) C. Agardh var. **scalpelliformis**, see Papenfuss and Egerod, 1957: 89.

Fucus scorpioides Gmelin, 1768: 39.

Bostrychia scorpioides (Gmelin) Montagne, 1845: 39.

Fucus serratus Rudolphi, 1831. *Linnaea* 6: 172.

Sargassum longifolium (Turner) C. Agardh, 1820: 17.

Fucus serrulatus Forsskål, 1775: 179.

Caulerpa serrulata (Forsskål) J. Agardh emend Boergesen, 1932: 5, pl. 1, fig. 2.

Fucus seticulosus Forsskål, 1775. *Flora aegyptico-arabica,* pp. cxxv and 190.

Cystoseira myrica (S.G. Gmelin) C. Agardh, 1820: 53.

Fucus spinosus Linnaeus, 1771. *Mantissa plantarum,* 2: 313.

Eucheuma denticulatum (Burman f.) Collins et Hervey, 1917: 106.

Fucus squamulosus Turner, 1809. *Fuci* II ... p. 148, pl. 128.

Phloiocaulon squamulosum (Suhr) Geyler, 1866: 509.

Fucus stiriatus Turner, 1808. *Fuci* I ... p. 32, pl. 16.

Gigartina stiriata (Turner) J. Agardh, 1851: 277.

Fucus tenellus Vahl, 1802. *Natur. Hist. Selsk. Skrift* 5 (2): 45.

Bostrychia tenella (Vahl) J. Agardh, 1863: 869.

Fucus tournefortii Lamouroux, 1805. *Dissertations* ... p. 44, pl. 26, fig. 1.

Zonaria tournefortii (Lamouroux) Montagne, 1846: 32.

Fucus trinodis Forsskål, 1775. *Flora aegyptica-arabica,* pp. 125 and 192.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Fucus triqueter Linnaeus, 1771. *Mantissa plantarum* 2: 312 [non Gmelin, 1768: 122, pl. 8, fig. 4].

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Fucus turbinatus var. *ornatus* Turner, 1808. *Fuci* I ... p. 50, pl. 24, fig. a–h.

Turbinaria ornata (Turner) J. Agardh, 1848: 266.

Fucus ustulatus Mertens in Montagne, 1846–1849.

Caulacanthus ustulatus (Turner) Kuetzing, 1843: 395.

Fucus uvifer Turner, 1819. *Fuci* IV ... p. 81, pl. 230 [non Forsskål, 1775, p. 192 = *Laurencia uvifera* (Forsskål) Boergesen, 1932, p. 12].

Caulerpa racemosa (Forsskål) J. Agardh var. **racemosa** (see Papenfuss and Egerod (1957: 88).

Fucus venosus Linnaeus, 1771. *Mantissa plantarum*, 2: 312.

Hymenena venosa (Linnaeus) Kylin, 1924: 83.

Fucus vermicularis Turner, 1819. *Fuci* IV ... p. 61, pl. 221 [non Gmelin, *Hist. Fuc.* p. 162, pl. 18, fig. 4, 1768].

Gymnogongrus vermicularis (C. Agardh) J. Agardh, 1851: 323.

Fucus verrucosus Hudson, 1762. *Flora anglica*, p. 470.

Gracilaria verrucosa (Hudson) Papenfuss, 1950: 195.

Fucus versicolor S.G. Gmelin, 1765, pl. 17, fig. 2.

Gelidium versicolor (S.G. Gmelin) Lamouroux, 1813: 14.

Fucus virgatus Thunberg, 1823 *Flora capensis*, p. 754.

Tayloriella virgata (C. Agardh) Papenfuss, 1940: 14.

Fucus vittatus Linnaeus, 1767. *Systema naturae*, 2: 718.

Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Fucus zonalis Lamouroux, 1805. *Dissertations* ... p. 38, pl. 25, fig. 1.

Stypopodium zonale (Lamouroux) Papenfuss, 1940: 205.

Galaxaura beckeri Schmitz ex Mazza, 1906. *Nuova Notarisia* 17: 3.

Galaxaura diesingiana Zanardini, 1846: 51.

Galaxaura breviarticulata Kjellman, 1900. *K. svenska Vet.-Akad. Handl.* ser. 4, 33(1): 84, pl. 18, figs 1–13 and pl. 20, fig. 51.

Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Galaxaura corymbifera Kjellman, 1900. *K. svenska Vet.-Akad. Handl.* ser. 4, 33(1): 87, pl. 19, figs 21–27 and pl. 20, fig. 50.

Papenfuss, 1968: *Jl S. Afr. Bot.* 34(5): 271.

Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Galaxaura decaisnei J. Agardh, 1876. *Epicr.*, p. 526.

Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Galaxaura diesingiana Zanardini, 1846. *Giorn. Bot. Ital.* 2: 51.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 271.

Galaxaura beckeri Schmitz ex Mazza, 1906: 3.

Galaxaura natalensis Kylin, 1938: 6.

Galaxaura marginata sensu Krauss, 1846, p. 214.

Zanardinia marginata sensu Barton, 1893, p. 171 (pro parte).

Zanardinia marginata b. diesingiana (Zanardini) J. Agardh, 1876, p. 534.

Brachycladia marginata f. diesingiana (Zanardini) De Toni, 1897: 110.

Euhymenia capensis Kuetzing, 1849: 742.

Galaxaura effusa Kjellman, 1900. *K. svenska Vet.-Akad. Handl.* ser. 4, 33(1): 84, pl. 18, figs 14–18, pl. 20, fig. 52.

Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Galaxaura insignis Kjellman, 1900. *K. svenska Vet.-Akad. Handl.*, ser. 4, 33(1): 87, pl. 19, figs 8–20: pl. 20, fig. 47.

Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Galaxaura magna Kjellman, 1900. *K. svenska Vet.-Akad. Handl.* ser. 4, 33(1): 82, pl. 15, figs 1–10; pl. 20, fig. 46.

Papenfuss, 1956. *Jl S. Afr. Bot.* 22(2): 70.

Corallopsis dichotoma Suhr, 1839: 70 [non Lamouroux ex Decaisne, 1842: 116].

Galaxaura marginata sensu Krauss, 1846. *Flora, Jena* 29: 214.

Galaxaura diesingiana Zanardini, 1846: 51.

Galaxaura moniliformis Kjellman, 1900. *K. svenska Vet.-Akad. Handl.*, ser. 4, 33(1): 83.

Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Galaxaura natalensis Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 6, fig. 1E and pl. 2, fig. 4.

Galaxaura diesingiana Zanardini, 1846: 51.

Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816. *Polyp. flex.*, p. 262.
Papenfuss and Chiang, 1969. *Proc. Intl Seaweed Symp.* 6: 305.
Papenfuss 1968: 271.
Corallina obtusata Ellis et Solander, 1786: 113, pl. xxii, fig. 2.
Galaxaura insignis Kjellman, 1900: 87.
Galaxaura tumida Kjellman, 1900: 86.
Galaxaura umbellata (Esper) J. Agardh, 1876: 526 (pro parte).
Galaxaura decaisnei J. Agardh, 1876: 526.
Galaxaura corymbifera Kjellman, 1900: 87, pl. 20, fig. 50.
Galaxaura moniliformis Kjellman, 1900: 83.
Galaxaura robusta Kjellman, 1900: 85.
Galaxaura effusa Kjellman, 1900: 84.
Galaxaura breviarticulata Kjellman, 1900: 84.
Galaxaura obtusata sensu Krauss, 1846: 214.

Galaxaura obtusata sensu Krauss, 1846. *Flora, Jena* 29: 214.
Galaxaura obtusata (Ellis et Solander) Lamouroux 1816: 262.

Galaxaura robusta Kjellman, 1900. *K. svenska Vet.-Akad. Handl.* ser. 4, 33(1): 85.
Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Galaxaura tenera Kjellman, 1900. *K. svenska Vet.-Akad. Handl.* 33(1): 77, pl. 14, figs 10–19; pl. 20, fig. 32.
Papenfuss and Chiang (1969: 307) list these synonyms of **Galaxaura tenera** Kjellman:
Galaxaura stupocaula Kjellman (Brazil).
Galaxaura clavigera Kjellman (Somalia, East Africa).
Galaxaura veprecula Kjellman (Madagascar).
Galaxaura ventricosa Kjellman (Gabon River, West Africa).
The above synonyms have not been entered separately in this catalogue.

Galaxaura tumida Kjellman, 1900. *K. svenska Vet.-Akad. Handl.*, ser 4, 33(1): 86.
Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Galaxaura umbellata (Esper) J. Agardh, 1876. *Species genera et ordines algarum* ... p. 526, pro parte.
Galaxaura obtusata (Ellis et Solander) Lamouroux, 1816: 262.

Gastridium corallinum Suhr, 1836. *Flora, Jena* 19: 344, pl. 4, fig. 31.
Erythroclonium corallinum (Suhr) E.M. Holmes, 1896: 350.

Gastroclonium capense (Harvey) De Toni, 1900. *Sylloge algarum* ... 4: 567.
Chylocladia capensis Harvey, 1847: 79.

Gelidiella acerosa (Forsskål) Feldmann et Hamel, 1934: 533. *Rev. Gén. Bot.* 46: 528–549.
Papenfuss 1952: 175.
Fucus acerosus Forsskål, 1775: 190.
Fucus rigidus Vahl, 1802: 46.
Gelidium rigidum Greville, Montagne, Alques de Cuba: 45.
Gelidiopsis rigida Weber-van Bosse, 1905: 9, plus *Echinocaulon* – a name applied to an Angiosperm. This species was excluded from the South African seaweed flora by Papenfuss (1952: 175).

Gelidiocolax margaritoides (Martin et Pocock) Fan et Papenfuss, 1959. *Madroño,* 15(2): 34.
Choreocolax margaritoides Martin et Pocock, 1953: 50.

Gelidiocolax suhriae (Martin et Pocock) Fan et Papenfuss, 1959. *Madroño*, 15(2): 33.
Choreocolax suhriae Martin et Pocock, 1953: 48.

Gelidiopsis rigida (Vahl) Weber-van Bosse, 1904. *Recl trav. bot. néerl.* 1: 104.
Gelidiella acerosa (Forsskål) Feldmann et Hamel, 1934: 533.

Gelidium aculeatum Hering in Krauss, 1846. *Flora, Jena* 29: 210.
Gracilaria aculeata (Hering) Papenfuss, 1966: 100.

Gelidium amansii (Lamouroux) Lamouroux, 1813. *Ann. Mus. natn. Hist. nat. Paris* 20: 129.
Kuetzing 1868. *Tabulae phycologicae* ... pl. 44.
Fucus amansii Lamouroux, 1805: 48.

Gelidium arenarium Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 8, fig. 20.

Gelidium caespitosum Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 8, fig. 2 e–h.

Gelidium cartilagineum (Linnaeus) Gaillon, 1828. *Dict. Sci. Nat.* 53: 362.
Gelidium versicolor (S.G. Gmelin) Lamouroux, 1813: 41.

Gelidium corneum sensu Harvey, 1838. *Genera of South African Plants*: 399; Barton, 1893. *J. Bot., Lond.* 31: 172 (as to the Harvey material from Sea Point only).
Gelidium micropterum Kuetzing, 1868: 21.

Gelidium crinale (Turner) Desmazières 1827, exsiccatae. (A record in Delf and Michell, 1921: 104). See Dixon and Irvine (1977: 126) for further information.

Gelidium fastigatum Kuetzing, 1868. *Tabulae phycologicae* ... 18: 21, pl. 61 a–b.
Trematocarpus flabellatus (J. Agardh) De Toni, 1900: 418.

Gelidium helenae Dickinson, 1949. *Kew Bull.*, 4: 565, figs 1–2.
Beckerella helenae (Dickinson) Fan and Papenfuss, 1961: 322.

Gelidium heterocladum ? Papenfuss ined. A Stephenson (1948: 304) record.

Gelidium micropterum Kuetzing, 1868. *Tabulae phycologicae* ... 18: 21, pl. 59, figs c–g.
Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 173.
Gelidium corneum sensu Harvey, 1838 : 399; Barton (1893: 172) (as to the Harvey material from Sea Point only).

Gelidium pristoides (Turner) Kuetzing, 1843. *Phycologia generalis* ... p. 407.

Fucus pristoides Turner, 1808: pl. 39.
Sphaerococcus pristoides C. Agardh, 1822: 234.
Delesseria pristoides Lamouroux, 1813: 38.
Phyllophora pristoides Greville, 1830: 56.
Suhria pristoides J. Agardh, 1851: 479. (N.B. Manuscript names given in De Toni, 1903: 157, have been omitted).

Gelidium reptans (Suhr) Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 6.
Phyllophora reptans Suhr, 1841: 285.

Gelidium rigidum (Vahl) Greville, 1830. *Algae britannicae*, p. 57. A Barton (1893) record which has been identified by Papenfuss (1952: 175) as *Gelidiella acerosa* (Forsskål) Feldmann et Hamel. He comments on the fact that other 'specimens which various authors have assigned to *Gelidium rigidum* (or *Gelidiella acerosa*, as the species is now known) have been found to belong to *Gelidium amansii* (Lamour) Lamouroux (1813).'

Gelidium rumpii Dickinson, 1949. *Kew Bull.* 4: 565, pl. 4.
Beckerella rumpii (Dickinson) Fan et Papenfuss, 1961: 322.

Gelidium serratum Kuetzing, 1868. *Tabulae phycologicae* ... 18: 22, pl. 62, figs a–c.
Callophycus africanus (Schmitz) Hewitt, 1960: 205.

Gelidium spinulosum *(C. Agardh) J. Agardh, 1852. Species genera et ordines algarum* ... 2(2): 475.
Papenfuss (1952: 174) excludes this species from the South African flora.

Gelidium versicolor (S.G. Gmelin) Lamouroux, 1813. *Ann. Mus. natn. Hist. nat., Paris* 20: 41.
Dixon, 1967. *Blumea* 15(1): 58.
Fucus versicolor S.G. Gmelin, 1768, pl. 17, fig. 2.
Fucus cartilagineus Linnaeus, 1753: 1161 – name incorrectly applied – see Dixon 1967: 58.
Gelidium cartilagineum (Linnaeus) Gaillon, 1828: 362.

Gelidium vittatum Kuetzing, 1843. *Phycologia generalis*, p. 407.
Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Giffordia hincksiae (Harvey) Hamel, 1939: p. xv.
Ectocarpus hincksiae Harvey, 1841: 40.

Giffordia mitchellae (Harvey) Hamel, 1939: p. xiv, fig. 61 C.D.
Ectocarpus mitchellae Harvey, 1851: 142, pl. xii G.

Gigartina acicularis (Roth) Lamouroux, 1813. *Ann. Mus. natn. Hist. nat., Paris* 20: 136 (reprint p. 44).
Ceramium aciculare Roth, 1806: 114.

Gigartina aculeata (Hering) Kuetzing, 1868. *Tabulae phycologicae* ... 18: 3, pl. 6, figs a and b.
Gracilaria aculeata (Hering) Papenfuss, 1966: 100.

Gigartina bracteata (Gmelin) Setchell et Gardner, 1933. *Univ. Calif. Publs Bot.* 17: 258.
Fucus bracteatus Turner, 1808: 54.

Gigartina burmannii (C. Agardh) J. Agardh; Barton (1893) records this species from South Africa. It is now known that this species is the tetrasporic form of **Gigartina stiriata** (Turner) J. Agardh.

Gigartina chondrus Areschoug, 1850. *Phyc. Extra-europ. exsicc.* No. 13 (nomen nudum).
Gigartina scabiosa (Kuetzing) Papenfuss, 1943: 88.

Gigartina convoluta Areschoug ex J. Agardh, 1899. *Lunds Univ. Årsskr.*, N.F., Afd. 2, 35(4): 32.
Iridaea convoluta (Areschoug ex J. Agardh) Hewitt, 1960: 196.

Gigartina fastigiata J. Agardh, 1850: 86.
Gigartina scutellata (Hering) Simons, in press (personal communication (1982).

? Gigartina incrassata (Kuetzing) Setchell et Gardner, 1933, 17(10): 295.
Gigartina polycarpa (Kuetzing) Setchell et Gardner, 1933: 295.

Gigartina insignis (Endlicher et Diesing) Schmitz in Barton 1896; *J. Bot., Lond.* 34: 459.
Iridaea insignis Endlicher et Diesing, 1845: 289.

Gigartina minima Kylin, 1938. *Lunds Univ. Årsskr.*, N.F. Avd. 2, 34(8): 13, pl. 4, fig. 11.

Gigartina nodifera Hering in Krauss, 1846. *Flora, Jena* 4: 210.
Prionitis nodifera (Hering) Barton, 1896: 459.

Gigartina paxillata Papenfuss, 1947. *Univ. Calif. Publs Bot.* 23(1): 2, pl. 1, fig. 3; pl. 3.

Gigartina pistillata (S.G. Gmelin) Stackhouse, 1809. *Mém. Soc. Imp. Nat. Moscow* 2: 74.
Fucus pistillatus *Gmelin, 1768: 159, pl. 12, fig. 1.* De Toni (1897: 205) lists further synonyms which have not been included in this catalogue.

Gigartina polycarpa (Kuetzing) Setchell et Gardner, 1933. *Univ. Calif. Publs Bot.* 17: 295.
Mastocarpus polycarpus Kuetzing, 1849: 733.
? Gigartina spathulata J. Agardh, 1899: 28.
? Gigartina incrassata (Kuetzing) Setchell et Gardner, 1933: 295.

Gigartina radula (Esper) J. Agardh, 1851. *Species genera et ordines algarum* 2: 278.
Fucus radula Esper, 1802: 3, pl. 113.

Gigartina scabiosa (Kuetzing) Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 88.
Gigartina scutellata (Hering) Simons, in press. (Personal communication (1982).

Gigartina scutellata (Hering) Simons, in press.
Sphaerococcus (Chondrus) scutellatus Hering, 1841: 91.
Chondrus scutellatus (Hering) Krauss, 1846: 210; *non* Kuetzing, 1849: 736 = *Polyopes constrictus* (Turner) J. Agardh.
Gigartina fastigiata J. Agardh, 1850: 86; *non* Postels et Ruprecht.
Chondrus scabiosus Kuetzing, 1867: 19, pl. 63 a–b.
Gigartina scabiosa (Kuetzing) Papenfuss, 1943: 88. (Personal communication from R. Simons (1982).

? Gigartina spathulata J. Agardh, 1899. *Lunds Univ. Årsskr.*, Afd. 2, 35(4): 28.
Gigartina polycarpa (Kuetzing) Setchell et Gardner, 1933: 295.

Gigartina stiriata (Turner) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 277.

De Toni (1897: 224) lists the following synonyms for this species:

Fucus stiriatus Turner, 1808: pl. 16.
Fucus koelreuteri Linnaeus, 1763: 1388.
Fucus echinatus Poiret, 1808.
Sphaerococcus gelatinosus Nees, 1824.
Sphaerococcus stiriatus C. Agardh, 1822: 269.
Iridaea stiriata Bory in Hooker et Harvey, 1845: 547.
Mastocarpus stiriatus Kuetzing, 1843: 398.
? Iridaea volans Montagne, 1842–1845: 104.
Iridaea clavellosa Suhr et *Laurencia clavifera* Suhr fide J. Agardh, 1841: 20.
Mastocarpus papillatus Kuetzing, 1849: 734 partim; 1867: pl. 45.
[Non *Sphaerococcus papillatus* C. Agardh, 1820–1821, pl. 19].
[Non *Gigartina papillata* J. Agardh].
[Non *Iridaea papillata* Greville].
Note: Gigartina burmannii (C. Agardh) J. Agardh is the tetrasporic form of **Gigartina stiriata** (Turner) J. Agardh.

Gigartina teedii Lamouroux, mentioned in Delf and Michell (1921: 105).

Gigartina tysonii Reinbold in Tyson, 1912. *J. Bot.*, Lond. 50: 200.

Gigartina volans (C. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2: 275, cited in De Toni, 1900: 275 'ad Caput Bonae spel Africae australis (Chamisso).' See Setchell & Gardner 1933: 279 for further information (unlikely S A record).

Ginnania salicornioides Kuetzing, 1849. *Species algarum,* p. 716.
Scinaia salicornioides (Kuetzing) J. Agardh, 1851: 423.

Glaphrymenia porphyroidea Schmitz in Holmes, 1894. *Ann. Bot.* 8(31): 338.
Pugetia porphyroidea (Schmitz ex Holmes) Norris, 1964: 113.

Gloiophloea capensis Setchell, 1914. *Univ. Calif. Publs Bot.* 6: 117, pl. 16, figs 58, 59.
Pseudogloiophloea capensis (Setchell) Levring in Svedelius, 1956: 13.

Gonimophyllum africanum Martin et Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55(356): 54, fig. 2 d–e.

Goniolithon brassica-florida (Harvey) Foslie, 1905. *K. norske Vidensk. Selsk. Skr.* 5: 20.
Neogoniolithon brassica-florida (Harvey) Setchell et Mason, 1943: 91.

Goniolithon mamillare (Harvey) Foslie, 1898. *K. norske Vidensk. Selsk. Skr.* 2: 9.
Neogoniolithon mamillare (Harvey) Setchell et Mason, 1943: 91.

Goniotrichum elegans (Chauvin) Zanardini, 1847. *Alti R. Inst. Veneto Sc. Lett.*, ser. 1, 6: 249.
Bangia elegans Chauvin in Harvey 1846–1851: pl. 246.

Gracilaria aculeata (Hering) Papenfuss, 1966. *Phykos* 5(1+2): 100.
Gelidium aculeatum Hering in Krauss, 1846: 210.
Sphaerococcus aculeatus Hering, 1841: 91 [non (Linnaeus) Stackhouse, 1797: 24].
Gigartina aculeata (Hering) Kuetzing, 1868: 3.
Corallopsis aculeata (Hering) Holmes, 1894: 336.
Sphaerococcus heringii Keutzing, 1849: 775.

Gracilaria beckeri (J. Agardh) Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 175.
Tyleiophora beckeri J. Agardh, 1890: 36.
Tylotus beckeri (J. Agardh) Kylin, 1932: 60, fig. 17, a–b, pl. 22, fig. 55.

Gracilaria canaliculata (Kuetzing) Sonder, 1871: 56.
Sphaerococcus canaliculatus Kuetzing, 1868, pl. 82, fig. d–e.

Gracilaria capensis Schmitz ex Mazza, 1907. *Nuova Notarisia* 18: 134, No. 166.
Papenfuss, 1952: 176.
Tylotus capensis (Schmitz ex Mazza) Papenfuss, 1940: 220, fig. 14.

Gracilaria concinna Montagne – see **Gymnogongrus vermicularis** (C. Agardh) J. Agardh.

Gracilaria confervoides (Linnaeus) Greville, 1830.
Gracilaria verrucosa (Hudson) Papenfuss, 1950: 195.

Gracilaria crassa Harvey, Alg. Ceylon, exsicc. No. 29, recorded from Inhaca in herbarium M.A. Pocock.

Gracilaria dentata J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 603. Specimens recorded under this name by Delf and Michell (1921: 108) have been assigned to **Gracilaria protea** J. Agardh by Papenfuss (1943: 87).

Gracilaria denticulata Schmitz ex Mazza, 1907. *Nuova Notarisia* 18: 138, No. 172.
Papenfuss, 1952: 177.
Tylotus denticulatus (Schmitz ex Mazza) Papenfuss, 1940: 221, fig. 15.

Gracilaria millardetii (Montagne) J. Agardh, see Boergesen, 1943: 72. Recorded in MacNae & Kalk (1958) from Inhaca.

Gracilaria protea J. Agardh, 1901. *Species genera et ordines algarum* ... 3(4): 58.
Papenfuss (1943: 87) states that this species has been incorrectly recorded under the name *Gracilaria dentata* J. Agardh by Delf and Michell (1921: 108).

Gracilaria salicornia (J. Agardh) Dawson 1954: 4, fig. 3, recorded from Inhaca in herbarium M.A. Pocock.

Gracilaria spicifera Suhr, 1834. *Flora, Jena* 17(46): 731, pl. 2, fig. 14 m–o.
Hypnea spicifera (Suhr) Harvey apud J. Agardh, 1847: 14.

Gracilaria verrucosa (Hudson) Papenfuss, 1950. *Hydrobiologia* 2: 195.
Fucus verrucosus Hudson, 1762: 470.
Fucus confervoides Hudson, 1762: 474.
Fucus confervoides Linnaeus, 1763: 1629.
Gracilaria confervoides (Linnaeus) Greville, 1830: 123.

Grateloupia filicina (Lamouroux) C. Agardh, 1822. *Species algarum* ... 1(2): 223.
Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 273.

Delesseria filicina Lamouroux 1813: 38.
Chaetangium zeyheri Kuetzing, 1849: 793.

Grateloupia hieroglyphica (J. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 183.
Phyllymenia belangeri (Bory) Setchell et Gardner, 1936: 473.

Grateloupia longifolia Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 9.
Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 273.
Schizymenia undulata (J. Agardh) J. Agardh, 1851: 175 [non *Grateloupia undulata* J. Agardh, 1876: 155].
Platymenia undulata J. Agardh, 1848: 47.
Platymenia undulata var. *linearis* J. Agardh, 1849: 88.
Iridaea undulata sensu Barton, 1893: 139.

Griffithsia brachyarthra Kuetzing in Hohenacker, 1860. *Algae Marinae Siccatae*, fasc. 9, No. 437.
Pachychaeta brachyarthra (Kuetzing) Trevisan, 1875: 384.

Griffithsia caespitosa Harvey ex J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 82.
Griffithsia confervoides Suhr, 1840: 281.

Griffithsia confervoides Suhr, 1840. *Flora, Jena* 23(1): 281.
Papenfuss, 1940. *Bot. Notiser* 1940: 222.
Griffithsia caespitosa Harvey ex J. Agardh, 1851: 82.
Griffithsia corallina Barton, 1893: 113.
(See *Griffitsia* spelling in Index Nominum Genericorum Plantarum 1981: 748).

Griffithsia corallina Barton, 1893. *J. Bot., Lond.* 31: 113.
Griffithsia confervoides Suhr, 1840: 281.

Griffithsia cymosa Simons, 1970. *Div. Sea Fisheries Investig. Report* No. 88: 1, figs 3 and 4.

Griffithsia secunda Harvey ex J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 85.

Gymnogongrus capensis (C. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 324.
Gymnogongrus complicatus (Kuetzing) Papenfuss, 1943: 88.

Gymnogongrus complicatus (Kuetzing) Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 88.
Chondrus ? complicatus Kuetzing, 1849: 737.
Halymenia furcellata var. *capensis* C. Agardh, 1822: 214.
Gymnogongrus capensis (C. Agardh) J. Agardh, 1851: 324.

Gymnogongrus corymbosus J. Agardh, 1849. *K. svenska Vet.-Akad. Förh.* 6: 88. A Barton (1893) record.
Gymnogongrus glomeratus J. Agardh, 1849: 88.

Gymnogongrus dilatatus (Turner) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 326.
Fucus dilatatus Turner, 1819: pl. 219.

Gymnogongrus glomeratus J. Agardh, 1849. *K. svenska Vet.-Akad. Förh.* 6: 88; 1851, *Species genera et ordines algarum* ... 2(1): 322 (excl. syn. *Chondrus capensis* Kuetzing).
Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 88.
Gymnogongrus corymbosus J. Agardh, 1849: 88.

Gymnogongrus intermedius Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 12, pl. 4, fig. 10.

Gymnogongrus polycladus (Kuetzing) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 322.
Chondrus ? polycladus Kuetzing, 1849: 737.

Gymnogongrus vermicularis (C. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 323 (excl. syn. *Gracilaria concinna* Montagne).
Papenfuss, 1944. *Farlowia* 1(3): 343.
Sphaerococcus vermicularis C. Agardh, 1817: xvii; 1822: 311.
Fucus vermicularis Turner, 1819: 61, pl. 221 [not *Fucus vermicularis* Gmelin, 1768: 162, pl. 18, fig. 4].
Chondrus capensis Kuetzing, 1849: 738 (excl. syns.); 1867: 17, pl. 59, fig. a, b. [non *Gymnogongrus capensis* (C. Agardh) J. Agardh].

Gymnosorus collaris (C. Agardh) J. Agardh, 1894. *Lunds Univ. Årsskr.*, N.F., Afd. 2, 5(7): 11.
Lobophora variegata (Lamouroux) Womersley 1967: 221 (refer Papenfuss, 1943: 467).

Gymnosorus variegatus (Lamouroux) J. Agardh, 1894. *Lunds Univ. Årsskr.*, N.F., Afd. 2, 5(7): 11.
Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss 1943: 467).

Gymnothamnion elegans (Schousboe ex C. Agardh) J. Agardh, 1892. *Lunds Univ. Årsskr.*, N.F., Afd. 2, 3(6): 27, pl. 1, figs 11–14.
Papenfuss, 1943: 89.
Callithamnion elegans Schousboe ex C. Agardh, 1828: 162.
Plumaria elegans (Bonnemaison) Schmitz, 1896: 7.

Halicnide ? ovifolia (Suhr) De Toni, 1900. *Sylloge algarum* ... 4: 724.
Delesseria ovifolia Suhr in Kuetzing, 1866: 8, pl. 19, fig. a–c.

Halimeda cuneata Hering in Krauss, 1846. *Flora, Jena* 29: 214.
Papenfuss and Egerod, 1957. *Phytomorphology* 7(1): 89.
Halimeda obovata Kuetzing, 1858: 11, pl. 25, fig. 1. Womersley (1956: 375) lists two further synonyms (not recorded here).

Halimeda obovata Kuetzing, 1858. *Tabulae phycologicae* 8: 11, pl. 25, fig. 1.
Halimeda cuneata Hering in Krauss. 1846: 214.

Haliptilon gracilis (Lamouroux) Johansen, 1971. *Phycologia* 10(2/3): 243. See Johansen and Silva (1978: 416) for change in spelling from *Haliptylon* to *Haliptilon*.
Corallina gracilis Lamouroux, 1816: 288.

Haliptilon subulata (Ellis et Solander) Johansen, 1970. *Brit. Phyc. J.* 5(1): 79. See Johansen and Silva (1978: 416) for change in spelling from *Haliptylon* to *Haliptilon*.
Corallina subulata Ellis et Solander, 1786: 120.
Corallina rosea Lamarck, 1815: 232.
Jania rosea (Lamarck) Decaisne, 1842: 123.
Jania subulata (Ellis et Solander) Sonder, 1846: 186.

Corallina cuvieri var. *subulata* (Ellis et Solander) Areschoug, 1852: 572.

Haliseris delicatula Lamouroux. See Delf and Michell (1921: 101) for reference to a Barton record.

Haliseris dichotoma Suhr, 1840. *Flora, Jena* 23: 259.

Dictyopteris dichotoma (Suhr) Levring, 1938: 19.

Haliseris ligulata Suhr, 1834. *Flora, Jena* 17: 724, pl. 2, fig. 21. (See Delf and Michell (1921: 101).

Dictyopteris ligulata (Suhr) Schmidt, 1938: 219.

Haliseris macrocarpa Areschoug, 1847. *Icon. Phyc.* 3, pl. 5.

Dictyopteris macrocarpa (Areschoug) Schmidt, 1938, 77: 219.

Haliseris polypodioides C. Agardh, see Delf and Michell (1921: 101) for reference to a Barton record.

Dictyopteris polypodioides (De Candolle) Lamouroux, 1809: 332.

Haliseris serrata Areschoug, ? *Icon.* 1, p. 4, pl. vii (ref. De Toni, 1895: 259).

Dictyopteris serrata (Areschoug) Hoyt, 1920. *Bull. U.S. Bur. Fish.* 36: 460.

Haloglossum compressum (Griffiths) Hamel, 1937. *Phéophyc.*, p. 225.

Asperococcus compressus Griffiths in Hooker, 1833: 278.

Halopithys pinastroides (Gmelin) Kuetzing, 1843: 433, pl. 52, fig. II.

Fucus pinastroides Gmelin, 1768: 127, pl. II, fig. 1.

Haloplegma africanum Kuetzing, 1847. *Bot. Ztg.* 5(13): 221 (see Delf and Michell (1921: 116).

Halopteris congesta (Reinke) Sauvageau, 1904: 411. Excluded from the South African flora by Papenfuss (1956: 69).

Halopteris funicularis (Montagne) Sauvageau, 1904. *Journ. Bot.*, p. 393, fig. 80.
Papenfuss, 1956. *Jl S. Afr. Bot.* 22(2): 66.

Sphacelaria funicularis Montagne, 1842: 13.

Stypocaulon funiculare (Montagne) Kuetzing in Reinke, 1891: 22; Barton, 1893: 111; De Toni, 1895: 517. (These three records are based on *Sphacelaria globifera* Areschoug).

Anisocladus congestus Reinke, 1890: 213; 1891: 32 (only as to South African material, not as to lectotype from New Zealand).

Sphacelaria globifera Areschoug, 1851: 20; 1854: 364.

Sphacelaria paniculata sensu Krauss, 1846: 213; sensu J. Agardh, 1848: 36; sensu Areschoug, 1851: 19 [non Suhr, 1840: 278].

Stypocaulon paniculatum sensu Hohenacker, 1854: No. 154; sensu Magnus, 1873: 142, pl. 2, fig. 42; sensu Barton, 1893: 111 (cited from Krauss); sensu De Toni, 1895: 516 (cited from J. Agardh), [non *Sphacelaria paniculata* Suhr].

Sphacelaria scoparia sensu Harvey, 1838: 396; 1846: text to pl. 37; sensu Drège, 1843: 111, 223 (on p. 111 in error as *Sphaerococcus scoparius*); sensu Areschoug, 1851: 21 (cited from Drège and Harvey) [non *Halopteris scoparia* (L.) Sauvageau].

Stypocaulon scoparium sensu Kuetzing, 1849: 466 (cited from Harvey); sensu Barton, 1893: 111; sensu De Toni, 1895: 518 (cited from Kuetzing) [non *Halopteris scoparia* (L.) Sauvageau, cf. Sauvageau, 1904, p. 376].

Halosaccion ramentaceum (Linnaeus) J. Agardh, 1851. 2(1): 358; mentioned by Barton (1893: 141,206). Excluded from South African flora by Papenfuss (1943: 89).

Halothamnion filicinum Harvey ex J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 56.

Pleonosporium filicinum (Harvey ex J. Agardh) De Toni, 1903: 1308.

Halothamnion harveyanum J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 55.

Pleonosporium harveyanum (J. Agardh) De Toni, 1903: 1309.

Halymenia dentata Suhr, 1834. *Flora, Jena* 17(2): 734, pl. 1, fig. 8 [not *Kallymenia dentata* J. Agardh].

Anatheca dentata (Suhr) Papenfuss, 1940: 218.

Halymenia furcellata sensu Harvey, 1841: 52 (pro parte, as to specimens from South Africa).
Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 280.

Pseudogloiophloea capensis (Setchell) Levring in Svedelius, 1956: 13, figs. 6, 7, 9–14.

Halymenia furcellata var. *capensis* C. Agardh, 1822. *Species algarum* ... 1(2): 214; 1824, *Systema algarum*, p. 244.

Gymnogongrus complicatus (Kuetzing) Papenfuss, 1943: 88.

Halymenia furcellata var. *cartilaginea* Suhr, 1834: 733.

Trematocarpus flabellatus (J. Agardh) De Toni, 1900: 418.

Halymenia palmatifida Becker. This name is recorded as a synonym of *Aeodes digitata* Schmitz by Delf and Michell (1921). Both names appear to be manuscript names and not validly published (according to a personal communication from P.C. Silva, 1970).

Halymenia reptans Suhr, 1834. *Flora, Jena* 17: 735, pl. 2, fig. 17,S.

Rhodophyllis reptans (Suhr) Papenfuss, 1956: 71.

Halymenia saccata β simplex C. Agardh, 1822. *Species algarum* ... 1(2): 208 (in part).

Chaetangium ovale (Suhr) Papenfuss, 1940: 213.

Halymenia variegata Bory, 1829. *Coquille*: 179.

Callophyllis variegata (Bory) Kuetzing, 1843: 44.

Helminthocladia papenfussii Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 4, pl. 1, fig. 1; text-fig. 1.

Helminthora divaricata (C. Agardh) J. Agardh, 1851: 416, recorded from South Africa by Barton (1893: 144). Excluded from South African flora by Papenfuss (1943: 84).

Helminthora furcellata (Reinbold apud Tyson) Martin, 1947. *Trans. R. Soc. S. Afr.* 31: 371.

Nemalion furcellatum Reinbold apud Tyson, 1912: 199.

Hemitrema elegans (Hering) Doty, 1954. *Taxon* 3: 229.

Martensia elegans Hering, 1841: 92. (See International Code of Botanical Nomenclature (1966: 230) for conservation of *Martensia elegans*).

Heringia mirabilis (C. Agardh) J. Agardh, 1842. *Algae maris mediterranei et adriatici*, p. 68.

Sphaerococcus mirabilis C. Agardh, 1824: 230.

Herposiphonia ceratoclada (Montagne) Falkenberg, 1901: 313, fig. 3, figs 8–9.

Polysiphonia ceratoclada Montagne, 1842a: 6.

Herposiphonia falcata (Kuetzing) De Toni, 1903. *Sylloge algarum* ... 4: 1060.

Polysiphonia falcata Kuetzing, 1863: 12.

Herposiphonia heringii (Harvey) Falkenberg, 1901. *Rhodomel. Neapel* ... p. 314.

Polysiphonia heringii Harvey, 1847: 47.

Herposiphonia insidiosa (Greville) Falkenberg, 1901: 317.

Polysiphonia insidiosa Greville in J. Agardh, 1863: 926.

Herposiphonia ? monocarpa (Montagne) De Toni, 1903. *Sylloge algarum* ... 4: 1061.

Placophora monocarpa (Montagne) Papenfuss, 1956: 73.

Herposiphonia prorepens (Harvey) Schmitz in Engler, 1895. *Pflanz. Ost-Afr.*, p. 158.

Polysiphonia prorepens Harvey, 1847: 50.

Herposiphonia subdisticha Okamura, 1899: 11, pl. 1, figs 12–14. Herbarium record of Pocock from Arniston.

Herposiphonia tenella (C. Agardh) Ambronn, 1880. *Bot. Ztg.* 13: pl. 4, fig. 9. Saenger, 1973, reports this species from Inhaca.

Heterosiphonia arenaria Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 17, pl. 6, fig. 17.

Heterosiphonia capensis Falkenberg, 1901. *Rhodomel. Neapel* ... p. 643.

Heterosiphonia crispa (Suhr) Falkenberg, 1901. *Rhodomel. Neapel* ... p. 642.
Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 274.

Dasya crispa Suhr, 1840: 279.

Dasya callithamnion sensu Barton, 1893: 175 [non (Sonder) Harvey = *Heterosiphonia callithamnion* (Sonder) Falkenberg].

Heterosiphonia dubia (Suhr) Falkenberg, 1901. *Rhodomel. Neapel* ... p. 639.

Dasya dubia Suhr, 1840: 279.

Heterosiphonia pellucida (Harvey) Falkenberg, 1901. *Rhodomel. Neapel* ... p. 635.

Dasya pellucida Harvey, 1847: 67, pl. 27.

Hildenbrandtia. See Chamberlain, 1962. *Nova Hedwigia* 4(3/4): 371–373. Stephenson (1948) lists *Hildenbrandtia pachythallos* Dickinson. Barton (1893) lists *Hildenbrandtia rosea* Kuetzing.

Holmesia capensis J. Agardh, 1890. *Lunds Univ. Årsskr.* N.F., Afd. 2, 26(3): 39.
Wagner, 1954. *Univ. Calif. Publs Bot.* 27(5): 301, figs 74–86, figs 81–86.

Homoeostrichus multifidus J. Agardh, 1894. *Lunds Univ. Årsskr.*, N.F., Afd. 2, 5(7): 15.

Zonaria harveyana (Pappe ex Kuetzing) Areschoug, 1851: 26.

Hormoceras pulchellum Kuetzing, 1849. *Species algarum*, p. 676; 1862, *Tabulae phycologicae* ... 12: 23, pl. 75, figs d–i.

Ceramium diaphanum (Lightfoot) Roth var. **pulchellum** (Kuetzing) Simons, 1966: 162, pl. 2: 2.

Hormoceras tenerrimum Martens, 1866. *Botanischen Teil. Die Tange., Berlin*, p. 146, pl. 13, fig. 2.

Ceramium tenerrimum (Martens) Okamura, 1921: 112.

Hormophysa articulata (J. Agardh) Kuetzing, 1860. *Tabulae phycologicae* ... 10: 22, pl. 61.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Hormophysa latifrons Kuetzing, 1860. *Tabulae phycologicae* ... 10: 22, pl. 60, fig. 2.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Hormophysa prolifera (J. Agardh) O.C. Schmidt, 1938. *Hedwigia* 77: 230.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843. *Phycologia generalis* ... p. 359.
Papenfuss, 1967. *Phytomorphology* 17(1–4): 46.

Cystoseira triquetra C. Agardh, 1820: 61.

Fucus triqueter Linnaeus, 1771: 312 [non Gmelin, 1768: 122, pl. 8, fig. 4].

Moniliformia triquetra (C. Agardh) Decaisne 1841: 145.

Hormosira triquetra (C. Agardh) Decaisne, 1842: 331.

Fucus articulatus Forsskål, 1775, pp. lxxviii and 191. [non Gmelin, 1768, p. 77, pl. 11, fig. 1].

Cystoseira articulata J. Agardh, 1848: 216.

Hormosira articulata (J. Agardh) Zanardini, 1858: 243.

Hormophysa articulata (J. Agardh) Kuetzing, 1860: 22, pl. 61.

Cystoseira prolifera J. Agardh, 1848: 215.

Hormophysa prolifera (J. Agardh) O.C. Schmidt, 1938: 230.

Hormophysa latifrons Kuetzing, 1860: 22, pl. 60, fig. 2.

Cystoseira latifrons (Kuetzing) De Toni, 1895: 176.

Hormosira articulata (J. Agardh) Zanardini, 1858. *Mem. R. Ist. veneto Sci.* 7: 243.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Hormosira triquetra (C. Agardh) Decaisne, 1842. *Annls Sci. nat. Bot.* ser 2, 18: 331.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Hutchinsia complanata C. Agardh, 1824. *Systema algarum*, p. 157.

Tayloriella virgata (C. Agardh) Papenfuss, 1940: 14.

Hutchinsia corymbifera C. Agardh, 1828. *Species algarum* ... 2(1): 90.

Streblocladia corymbifera (C. Agardh) Kylin, 1938: 20.

Hutchinsia miniata C. Agardh, 1828. *Species algarum* ... 2(1): 94.

Platysiphonia miniata (C. Agardh) Boergesen, 1931: 21.

Hutchinsia virgata C. Agardh, 1824. *Systema algarum*, p. 157.

Tayloriella virgata (C. Agardh) Papenfuss, 1940: 14.

Hydroclathrus cancellatus Bory, 1825. *Dict. Class. Hist. Nat.* 8: 419.

Hydroclathrus clathratus (C. Agardh) Howe, 1920: 590.

Hydroclathrus clathratus (C. Agardh) Howe in Britton et Millspaugh, 1920. *The Bahama flora*, p. 590.

Fucus clathratus Bory mscr.

Encoelium clathratum C. Agardh, 1822: 412.

Hydroclathrus cancellatus Bory, 1825: 419.

Asperococcus cancellatus Sonder, 1846: 156.

Asperococcus clathratus (Bory mscr.) J. Agardh, 1848: 75.

Hymenena fissa Greville, 1830. *Algae britannicae*, pl. 48.

Hymenena venosa (Linnaeus) Kylin, 1924: 83.

Hymenena venosa (Linnaeus) Kylin, 1924. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 20(6): 83.

Fucus venosus Linnaeus 1771: 312.

Delesseria venosa (Linnaeus) Lamouroux, 1813: 125.

Hymenena fissa Greville, 1830: pl. 48.

Nitophyllum fissum (Greville) J. Agardh, 1872: 51.

Hymenocladia kallymenioides (Holmes) Schmitz, 1896, *Nuova Notarisia* 7: 13.

Sparling, 1957. *Univ. Calif. Publs Bot.* 29(3): 371, fig. 14e, fig. 15a, d, e, pl. 59.

Microcoelia kallymenioides Holmes, 1894: 339.

Hymenocladia kowiensis Schmitz ex Mazza 1907: 181.

Hymenocladia kowiensis Schmitz ex Mazza, 1907. *Nuova Notarisia* 18: 181.

Hymenocladia kallymenioides (Holmes) Schmitz, 1896: 13.

Hymenocladia polymorpha (Harvey) J. Agardh, 1870. *K. svenska Vet.-Akad. Förh.* 27: 453. This species is listed for S. Africa by Barton (1893), but this is in error as the specimen belongs to *Hymenocladia sanguinea* (Harvey) Sparling and is representative of Australia and New Zealand.

Hypnea arenaria Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 12, fig. 6.

Hypnea armata (C. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(2): 444.

Hypnea spicifera (Suhr) Harvey, 1847: 14 (as *H. spicigera).*

Hypnea ceramioides Kuetzing, 1849. *Species algarum*, p. 759.

Hypnea compressa Papenfuss mscr. A Stephenson (1948) record.

Hypnea conjesta Papenfuss mscr. A Stephenson (1948) record.

Hypnea ecklonii Suhr, 1836. *Flora, Jena* 19: 342, pl. 4, fig. 30.

Hypnea episcopalis sensu Barton, 1893: 173.

Hypnea musciformis (Wulfen) Lamouroux, 1813: 131.

Hypnea fruticulosa Kuetzing, 1849. *Species algarum*, p. 760. A Barton record which needs investigation.

Hypnea hamulosa sensu J. Agardh, 1851: 447.

Hypnea musciformis (Wulfen) Lamouroux, 1813: 131.

Hypnea intricata Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 11, fig. 4 b–c.

Hypnea musciformis (Wulfen) Lamouroux, 1813. *Ann. Mus. natn. Hist. nat. Paris* 20: 131.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 274.

Hypnea hamulosa sensu J. Agardh, 1851: 447.

Hypnea episcopalis sensu Barton, 1893: 173.

Fucus musciformis Wulfen in Jacquin, *Collect.* III, p. 154, pl. 14, fig. 3.

Hypnea reptans Papenfuss mscr. A Stephenson (1948) record.

Hypnea rosea Papenfuss, 1947. *Univ. Calif. Publs Bot.* 23: 1, pl. 1, fig. 1; pl. 2, figs 5–8.

Hypnea spicifera (Suhr) Harvey in J. Agardh, 1847. *K. svenska Vet.-Akad. Förh.* 4: 14.

Harvey, 1847. *Nereis australis* ... pl. 49 (as *Hypnea spicigera).*

Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 86.

Hewitt, 1960. *Univ. Calif. Publs Bot.* 32(3): 212.

Gracilaria spicifera Suhr, 1834: 731.

Hypnea armata (C. Agardh) J. Agardh, 1851: 444.

Sphaerococcus musciformis var. *armatus* C. Agardh, 1822: 328.

Hypnea spinella (C. Agardh) Kuetzing, 1849. *Species algarum*, p. 759 [non *Tab. Phyc.* 18, pl. 26?].

(See Delf and Michell (1921: 109) for mention of this Barton record).

Hypnea tenella Papenfuss mscr. A Stephenson (1948) record.

Hypnea tenuis Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 11, fig. 5.

Hypnea viridis Papenfuss, 1947. *Univ. Calif. Publs Bot.* 23(1): 2; pl. 1, fig. 2; pl. 2, figs 9–11; pl. 3, fig. 14.

Ilea fascia (O.F. Mueller) Fries, 1835. *Flora scanica* ... p. 321.

Petalonia fascia (O.F. Mueller) Kuntze 1898: 419.

Iridaea agathoica Delf et Michell, 1921: 105 (as *I. agathoicus*) [validated by the description and illustrations given by Kuetzing, 1867: 16 , pl. 54, figs a, b, under the name of *Chondrus agathoicus*].

Iridaea augustineae Bory, 1827–1829. *Voyage autour du monde sur La Coquille*. n. 15, pl. 12. (See Delf and Michell (1921: 105) for mention of this Barton record).

Iridaea belangeri Bory in Bélanger, 1834. *Voy. Indes-Orient. 1825–1829, Bot. Crypt.*, p. 160, pl. 15, fig. 1.

Phyllymenia belangeri (Bory) Setchell et Gardner 1936: 473.

Iridaea capensis J. Agardh, 1847. *K. svenska Vet.-Akad. Förh.* 4: 85, pl. 1. (Spelt *Irideae capense* J. Agardh in Delf and Michell (1921: 104).
Silva, 1952. *Univ. Calif. Publs Bot.* 25(4): 284.
Iridophycus capensis (J. Agardh) Setchell et Gardner, 1936: 470.
(N.B. De Toni (1897: 185) lists further synonyms which have not been included in this catalogue).

Iridaea carnosa (J. Agardh) Kuetzing, 1867. *Tabulae phycologicae* ... p. 5, pl. 17.
Pachymenia carnosa (J. Agardh) J. Agardh, 1876: 145.

Iridaea clavellosa Suhr fide J. Agardh, 1851: 20 (reference De Toni 1897: 225).
Gigartina stiriata (Turner) J. Agardh, 1851: 277.

Iridaea convoluta (Areschoug ex J. Agardh) Hewitt, 1960. *Univ. Calif. Publs Bot.* 32(3): 196, fig. 1–15, pl. 26.
Gigartina convoluta Areschoug ex J. Agardh, 1899: 32.

Iridaea cordata (Turner) J. Agardh, 1851: 254 (see Delf and Michell (1921:105) for mention of this Barton record).

Iridaea cornea Kuetzing, 1867. *Tabulae phycologicae* ... p. 6, pl. 20.
Pachymenia cornea (Kuetzing) Chiang, 1970: 22.

Iridaea curvata Kuetzing, 1849. *Species algarum*, p. 729.
Kallymenia schizophylla J. Agardh, 1848: 48.

Iridaea elongata Suhr (see Delf and Michell (1921: 104) for mention of this species).

Iridaea gigantea Kuetzing, 1843. *Phycologia generalis* ... p. 396. (see Delf and Michell (1931: 104) for mention of this Barton record).

Iridaea insignis Endlicher et Diesing, 1845. *Bot. Ztg.* 3, 17: 289 (see Delf and Michell (1921: 105) for mention of this Barton record).

Iridaea labyrinthifolia Kuetzing, 1849. *Species algarum,* p. 729.
Phyllymenia belangeri (Bory) Setchell et Gardner, 1936: 473.

Iridaea laminarioides Bory, 1827–1829. *Voyage autour du monde sur La Coquille,* p. 105, pl. xi, fig. 1 a–c (see Delf and Michell (1921: 105) for mention of this Barton record).

Iridaea lanceolata Harvey in Hooker, 1853. *Flora Novae Zelandiae*, p. 252. A Barton (1893) record.

Iridaea orbitosa Suhr, 1840. *Flora, Jena* 23: 276.
Aeodes orbitosa (Suhr) Schmitz, 1894: 630.

Iridaea pappeana Sonder in Kuetzing, 1867. *Tabulae phycologicae* ... pl. 19.
Nemastoma lanceolata J. Agardh, 1848: 48.

Iridaea serratifolia sensu Barton, 1893, *J. Bot., Lond.,* 31: 139.
Kallymenia agardhii Norris, 1964: 91.

Iridaea stiriata Bory in Hooker et Harvey, 1845. *J. Bot., Lond.* 4: 547.
Gigartina stiriata Turner) J. Agardh, 1851: 277.

Iridaea undulata sensu Barton, 1893. *J. Bot., Lond.* 31: 139.
Grateloupia longifolia Kylin 1938: 9.

? Iridaea volans Montagne, 1842–1845. *Ann. Sci. Bot.* p. 104.
Gigartina stiriata (Turner) J. Agardh, 1851: 277.

Iridophycus capensis (J. Agardh) Setchell et Gardner, 1936. *Proc. natn. Acad. Sci. U.S.A.* 22: 470.
Iridaea capensis J. Agardh, 1847: 85.

Iyengaria stellata (Boergesen) Boergesen, 1939. *Mar. Alg. Iran. Gulf,* p. 92.
Rosenvingea stellata Boergesen, 1928: 1.
Colpomenia stellata (Boergesen) Boergesen, 1930: 169.

Janczewskia meridionalis Martin et Pocock, 1953. *Proc. Linn. Soc. Lond. Bot.,* 55: 62, fig. 3 a,b.

Jania adhaerens Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles,* p. 270.
Corallina adhaerens (Lamouroux) Kuetzing, 1858: pl. 83.
Jania pygmaea Lamouroux, 1816: 269.
Corallina pygmaea (Lamouroux) Kuetzing, 1858: 37. (Personal communication from H.W. Johansen, 1970).

Jania crassa Lamouroux, 1821. *Expos. méthod.,* p. 23, pl. 69, fig. 9–10.
Jania micrarthrodia var. *crassa* (Lamouroux) Areschoug in J. Agardh, 1852: 555.
Corallina crassa (Lamouroux) Collins, 1898, no. 500.
Jania natalensis Harvey, 1847: 107.
Corallina natalensis (Harvey) Kuetzing, 1858. (Personal communication from H.W. Johansen, 1970).

Jania digitata Manza, 1937. *Proc. natn. Acad. Sci. U.S.A.* 23(2): 571.
Arthrocardia palmata (Ellis et Solander) Areschoug, in J. Agardh, 1852: 549.

Jania fastigiata Harvey, 1847. *Nereis australis* ... p. 107.
Jania verrucosa Lamouroux, 1816: 270, pl. 9, fig. 4a. (Personal communication from H.W. Johansen, 1970).

Jania micrarthrodia var. *crassa* (Lamouroux) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2: 555.
Jania crassa Lamouroux 1821: 23.

Jania natalensis Harvey, 1847. *Nereis australis* ... p. 107.
Jania crassa Lamouroux, 1821: 23.

Jania pygmaea Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 269, pl. 9, fig. 1.
Jania adhaerens Lamouroux, 1816: 270.

? Jania racemosa Kuetzing, 1858. *Tabulae phycologicae* ... 8: 41, pl. 85, fig. 2.
? Jania verrucosa Lamouroux, 1816: 270, pl. 9, fig. 4a.

Jania rosea (Lamarck) Decaisne, 1842. *Annls Sci. nat. Bot.* ser. 2, 18: 123.
Haliptilon subulata (Ellis et Solander) Johansen, 1970: 79.

Jania rubens (Linnaeus) Lamouroux, 1812. *Nouv. Bull. Soc. Sci. Philomath. Paris* 3: 186. (A record of Stephenson, 1948).
Corallina rubens Linnaeus, 1758: 806.

Jania rubens var. **africana** Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 273.
(H.W. Johansen, in a personal communication, 1970, says he is not prepared to assign this variety as yet).

Jania subulata (Ellis et Solander) Sonder, 1846. *Plant. Preiss* 2: 186.
Haliptilon subulata (Ellis et Solander) Johansen, 1970: 79.

Jania verrucosa Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 270, pl. 9, fig. 4a.
Corallina verrucosa (Lamouroux) Kuetzing, 1858: 41.
Jania fastigiata Harvey, 1847: 107.
Corallina fastigiata (Harvey) Kuetzing, 1858: 38.
Corallina intermedia Kuetzing, 1858: 37, pl. 79, fig.1.
Corallina racemosa Kuetzing, 1858: 41, pl. 85, fig. 2. (? *Jania racemosa* Kuetzing, 1858: 41, pl. 85, fig. 2). (Personal communication from H.W. Johansen (1970) with the exception of the last item).

Kallymenia agardhii Norris, 1964. *Botanica mar.* 7(1–4): 91.
Papenfuss, 1968: *Jl S. Afr. Bot.* 34(5): 274.
Iridaea serratifolia sensu Barton, 1893: 139.

Kallymenia dentata J. Agardh in *Acta Holm.* 1847: 93, pl. 7. (See Papenfuss, 1940: 218).

Kallymenia harveyana J. Agardh, 1844. *In systemata algarum hodierna adversaria,* p. 40.
Pugetia harveyana (J. Agardh) Norris, 1964: 119.

Kallymenia papenfussii Norris, 1964. *Botanica mar.* 7 (1–4): 99, pl. 3, figs 13–19.

Kallymenia schizophylla J. Agardh, 1848. *K. svenska Vet.-Akad. Förh.* 5: 48.
Norris, 1964. *Botanica mar.* 7(1–4): 96. figs 8–12, pl. 2 a–b.
Iridaea curvata Kuetzing, 1849: 729.

Kuetzingia natalensis J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 1099.
Dicty(o)menia fimbriata Martens mscr. [non Greville].

Laminaria biruncinata Bory, 1826. *Dict. Class. Hist. Nat.* 9: 190.
Ecklonia biruncinata (Bory) Papenfuss, 1944: 341.

Laminaria pallida Greville ex J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 134; ex Kuetzing, 1849. *Species algarum*, p. 574.
Papenfuss, 1942. *Am. J. Bot.* 29(1): 19.

Laminaria schinzii Foslie, 1893. *Bull. Herb. Boissier* 1: 91, pl. 3.

Laurencia botryoides (Turner) Gaillon, 1828. *Dict. Sci. Nat.* 53: 363. This species was recorded by Barton (1893). It is not a South African species and should be excluded from the flora, according to G.F. Papenfuss (personal communication, 1970).

Laurencia brongniartii J. Agardh, 1841. *Linnaea*: 20. (See discussion under *Laurencia concinna* Montagne).

Laurencia capensis Harvey, 1847. *Nereis australis* ... p. 86, pl. 31.
Chondria capensis (Harvey) Falkenberg, 1901: 720.

Laurencia complanata (Suhr) Kuetzing, 1849. *Species algarum*, p. 857.
Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 91.
Chondria complanata Suhr in Krauss, 1846: 211.

Laurencia concinna Montagne, 1842. *Prod. Gen. Sp. Phyc.,* 1845: 126. Atlas pl. 14, fig. 3.
Yamada (1931) considers *Laurencia concinna* Montagne as synonymous with *Laurencia brongniartii* J. Agardh.
Papenfuss (1943: 91) considers *Laurencia concinna* to be different from *L. brongniartii* and *L. complanata* (Suhr) Kuetzing.

Laurencia corymbosa J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 747.

Laurencia distichophylla J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 762.
Papenfuss (1952: 184) excludes this species from the South African flora.

Laurencia divaricata Suhr 1840. *Flora, Jena* 23: 265.
Caulacanthus ustulatus (Turner) Kuetzing, 1843: 395

Laurencia elata (C. Agardh) Kuetzing, 1849. *Species algarum*, p. 856.
Barton (1893) recorded this species from South Africa. According to G.F. Papenfuss (personal communication, 1970), the specimens are referable to **Laurencia flexuosa** Kuetzing.

Laurencia flexuosa Kuetzing, 1849. *Species algarum,* p. 856.
Papenfuss (1952: 182) states that this species is not conspecific with *Laurencia glomerata* Kuetzing.

Laurencia flexuosa Kuetzing var. *pumila* Grunow, 1868. *Algen Novara* ... p. 87.
Laurencia pumila (Grunow) Papenfuss, 1943: 91.

Laurencia forsteri (Turner) Greville, 1830. *Algae britannicae* ... lii.
Papenfuss (1952: 181) excludes this species from the South African flora.

Laurencia glomerata Kuetzing, 1849. *Species algarum,* p. 857.
Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 182.

Laurencia virgata (C. Agardh) J. Agardh, 1852. 2(3): 752; 1876: 653 (excl. syn. *L. cymosa major* Kuetzing and extra South African records).
Chondria obtusa ζ *virgata* C. Agardh, 1822: 343.

Laurencia hybrida (DC.) Lenormand in Duby, 1830: 951. (See Papenfuss (1951: 184) where he states 'The records of the occurrence in South Africa of *Laurencia hybrida* (DC) Lenorm. by Barton (1983: 174) and Delf and Michell (1921: 113) apply to **L. natalensis.** *Laurencia hybrida* is a European species which does not occur in South Africa').

Laurencia laxa (Turner) Gaillon, 1828. *Dict. Sci. Nat.* 53: 363.
Papenfuss (1952: 183) excludes this species from the South Africa flora.

Laurencia moriformis Kuetzing, 1865. *Tabulae phycologicae* ... 15: 25, pl. 70, fig. a, b. A Barton (1893) record.

Laurencia natalensis Kylin, 1937. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 24, pl. 8, fig. 21.

Laurencia obtusa (Hudson) Lamouroux, 1813: 130.
Fucus obtusus Hudson, 1762: 586.

Laurencia papillosa (Forsskål) Greville, 1830. *Algae britannicae*, pl. 52.
The single record of Barton (1893) of this species can be assigned to **Laurencia glomerata** Kuetzing (personal communication from G.F. Papenfuss, 1970).

Laurencia pinnatifida (Turner) Lamouroux, 1813. *Ann. Mus. natn. Hist. nat., Paris* 20: 130.
This Barton (1893) record can be assigned to **Laurencia flexuosa** Kuetzing (personal communication from G.F. Papenfuss, 1970).

Laurencia pumila (Grunow) Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 91.
Laurencia flexuosa Kuetzing var. *pumila* Grunow, 1868: 87.

Laurencia tenera Tseng 1943: 200. This species is recorded by P. Saenger, 1973, from Inhaca.

Laurencia virgata (C. Agardh) J. Agardh, 1852. *Species genera et ordines algarum* ... 2(3): 752.
Laurencia glomerata Kuetzing, 1849: 857.

Leathesia difformis (Linnaeus) Areschoug, 1847. *Nova Acta R. Soc. Scient. upsal.*, p. 376.

Lessonia nigrescens Bory, 1826. *Dict. Class. Hist. Nat.* 9: 322.
A Barton (1893) record of a species which does not occur in South Africa.

Letterstedtia insignis J.E. Areschoug, 1851. *K. svenska Vet.-Akad. Förh.* 1: 2, pl. 1: pl. 2, fig. 13: pl. 3, fig. 14.
Pocock, 1959. *Hydrobiologia* 14(1): 1–71, 2 pls, 4 figs.
Ulva insignis (Areschoug) Papenfuss, 1960: 309.

Leveillea jungermannioides (Martens et Hering) Harvey, 1855. *Trans. R. Irish Acad.* 22 (Sc.): 539. (Recorded by Pocock from Inhaca – see MacNae and Kalk, 1958).

Levringia filiformis Kylin, 1940. *Lunds Univ. Årsskr.* N.F., Avd. 2, 36(9): 15, pl. 1, fig. 3.

Levringia natalensis (Kuetzing) Kylin, 1940. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 36(9): 15.
Mesogloia natalensis Kuetzing, 1847: 53.

Liagora ceranoides Lamouroux var. **leprosa** (J. Agardh) Yamada, 1938. *Scient. Pap. Inst. Alg. Res. Hokkaido Univ.* 2(1): 21. (Recorded by Pocock from Inhaca – see MacNae and Kalk (1958: 25).

Liagora valida Harvey, 1853. *Ner. bor.-amer.* 2: 138, pl. 31a. (Recorded by Pocock from Inhaca – see MacNae and Kalk (1958: 26).

Lithophyllum capense Rosanoff, 1866. *Mém. Soc. Imp. Sci. nat. Cherbourg* 12: 86.

? Lithophyllum lichenoides (Ellis et Solander) Philippi, 1837. *Arch. Naturgesch.* 3(1): 389. (A Barton (1893: 202) record).
Polyporolithon patena (Hooker f. et Harvey) Mason, 1953: 317.

Lithophyllum pustulatum (Lamouroux) Foslie, 1904. *K. norske Vidensk. Selsk. Skr.* (2): 8.
Dermatolithon corallinae (Crouan frat.) Foslie in Boergesen, 1902: 402.

Lithophyllum pustulatum f. *corallinae* (Crouan frat.) Foslie, 1905. *K. norske Vidensk. Selsk. Skr.* (3): 118.
Dermatolithon corallinae (Crouan et Crouan) Foslie in Boergesen, 1902: 402.

Lithothamnium brassica-florida (Harvey) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 523.
Neogoniolithon brassica-florida (Harvey) Setchell et Mason, 1943: 91.

Lithothamnium corticiformis (Kuetzing) Foslie, 1898. *K. norske Vidensk. Selsk. Skr.*, p. 4.
Melobesia membranacea (Esper) Lamouroux, 1816: 315.

Lithothamnium crassiusculum (Foslie) L.R. Mason, 1943. *Proc. natn. Acad. Sci. U.S.A.* 29(3–4): 93.
Lithothamnium rugosum f. *crassiuscula* Foslie, 1900: 4 (p.p.).
Lithothamnium pacificum f. *crassiuscula* Foslie, 1906: 10 (p.p.).

Lithothamnium fosliei Heydrich in *Ber. dt. bot. Ges.* 1897: 58 partim.
Neogoniolithon fosliei (Heydrich) Setchell et Mason, 1943: 90.

Lithothamnium lichenoides (Ellis et Solander) Foslie f. *patena* (Hooker et Harvey) Foslie, 1898, p. 7.
Polyporolithon patena (Hooker f. et Harvey) L.R. Mason, 1953: 317.

Lithothamnium mamillare (Harvey) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 521.
Neogoniolithon mamillare (Harvey) Setchell and Mason, 1943: 91.

Lithothamnium membranaceum (Esper) Foslie, 1900. *Rev. Syst. Surv. Melob.*, p. 15.
Melobesia membranacea (Esper) Lamouroux, 1816: 315.

Lithothamnium pacificum f. *crassiuscula* Foslie, 1906: 10.
Lithothamnium crassiusculum (Foslie) L.R. Mason, 1943: 93.

Lithothamnium patena Heydrich, 1901. *Bot. Jb.* 28: 542.
Polyporolithon patena (Hooker f. et Harvey) L.R. Mason, 1953: 317.

Lithothamnium polymorphum (Linnaeus) Areschoug in J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 524.
Phytomatolithon polymorphum (Linnaeus) Foslie, 1898: 4.

Lithothamnium rugosum f. *crassiuscula* Foslie, 1900: 4.
Lithothamnium crassiusculum (Foslie) L.R. Mason, 1943: 93.

Lobophora nigrescens J. Agardh, 1894. *Lunds Univ. Årsskr.* Afd. 1, 29: 23, pl. 1, figs 7–8.

Lobophora variegata (Lamouroux) Womersley, 1967: 221.

Lobophora variegata (Lamouroux) Womersley, 1967. *Aust. J. Bot.* 15: 221.

Papenfuss, 1943. *Am. J. Bot.* 30: 467 (for additional synonyms to those quoted by Womersley, see below).

Synonyms from Womersley:

Lobophora nigrescens J. Agardh, 1894: 23, pl. 1, figs 7–8.

Zonaria variegata Lamouroux in Harvey, 1863: 11.

Gymnosorus variegatus (Lamouroux) J. Agardh, 1894: 11.

Pocockiella variegata (Lamouroux) Papenfuss, 1943: 467 (for synonyms from Papenfuss see * below).

Zonaria nigrescens Sonder, 1845: 50.

Spatoglossum nigrescens (Sonder) Kuetzing, 1849: 561.

Orthosorus nigrescens (Sonder) Trevisan, 1849: 460.

Gymnosorus nigrescens (Sonder) J. Agardh, 1894: 12.

Pocockiella nigrescens (Sonder) Papenfuss, 1943: 467.

Papenfuss (1977: 275–277) lists *Padina commersonii* Bory, 1828, n. 41, pl. 21, fig. 2 as a further synonym.

*Synonyms from Papenfuss for *Pocockiella variegata* (Lamouroux) Papenfuss, 1943: 467:

Dictyota variegata Lamouroux, 1809: 331.

Zonaria variegata (Lamouroux) C. Agardh, 1817: 20.

Padina variegata (Lamouroux) Gaillon, 1828: 371.

Orthosorus variegatus (Lamouroux) Trevisan, 1849: 459.

Spatoglossum variegatum (Lamouroux) Kuetzing, 1849: 560.

Gymnosorus variegatus (Lamouroux) J. Agardh, 1894: 11, pl. 1, fig. 1–2.

Zonaria collaris C. Agardh, 1817: xx; 1820: 127.

Gymnosorus collaris (C. Agardh) J. Agardh, 1894: 11.

Stypopodium fissum Kuetzing, 1859: 25, pl. 64, figs 1 a–c.

Stypopodium laciniatum Kuetzing, 1859: 26, pl. 64, fig. 2 a–c.

Zonaria latissima Kuetzing, 1859: 30, pl. 75, fig. 1 a–c.

Zonaria obscura Dickie, 1877: 31.

Zonaria isselii Piccone et Grunow in Piccone, 1884: 297, pl. 7, fig. 1–4.

Zonaria parvula Greville var. *duplex* Heydrich, 1892: 473.

Ralfsia ceylanica Harvey ex Barton, 1903: 477, pl. 13, fig. 1–4.

Aglaozonia canariensis Sauvageau, 1905: 79.

Aglaozonia pacifica Setchell, 1926: 90.

Lomentaria capensis (Harvey) Kuetzing, 1849. *Species algarum*, p. 863.

Recorded by Barton (1893) and Delf and Michell (1921: 109).

Chylocladia capensis Harvey, 1847: 79.

Lomentaria corallina (Suhr) Kuetzing, 1865. *Tabulae phycologicae* ... 15: 34. (See Delf and Michell (1921: 109) for comment on this species).

Erythroclonium corallinum (Suhr) E.M. Holmes, 1896: 350.

Lomentaria patens Kuetzing, 1843. *Phycologia generalis* ... p. 440. (See Delf and Michell (1921: 109) for record of this species).

? synonym of **Chylocladia capensis** Harvey, 1847: 79.

Lophura armata Kuetzing, 1866. *Tabulae phycologicae* ... 16: 2, pl. 3, figs a–b.

Chondria armata (Kuetzing) Okamura, 1907: 69.

Lychaete robusta Areschoug, 1851. *Phyceae capenses*, p. 8.

Chaetomorpha robusta (Areschoug) Papenfuss, 1940: 200.

Macrocystis angustifolia Bory, 1826. *Dict. Class. Hist. Nat.* 10. (See Womersley (1954: 109–132 and 1967: 247) for further information where he refers the South African plant which was known as *M. pyrifera* (Linnaeus) C. Agardh to *M. angustifolia* Bory).

Macrocystis pelagica Areschoug in J. Agardh, 1851: 157. A record of Barton (1896) which is now known as **Macrocystis angustifolia.**

Macrocystis planicaulis C. Agardh, 1839: 298. A record of Barton (1896) which is now known as **Macrocystis angustifolia.**

Macrocystis pyrifera (Linnaeus) C. Agardh, 1820. *Species algarum* ... 1(1): 47.

Papenfuss, 1940. *Symb. bot. upsal.* 4, 3: 7.

Delf and Levyns, 1926. *Ann. Bot.* 40: 503–506.

Papenfuss, 1942. *Am. J. Bot.* 29(1): 21–23.

Womersley, 1954. *Univ. Calif. Publs Bot.* 27: 109–132.

Womersley, 1967. *Aust. J. Bot.* 15: 248.

Papenfuss, 1964. *Am Geophysical Union Antarctic Series*, p. 22.

Macrocystis angustifolia Bory, 1826: 10.

Martensia elegans Hering, 1841. *Ann. Mag. nat. Hist.* 8: 92. International Code of Botanical Nomenclature, 1966: 230.

Papenfuss, 1950. *Madroño* 10: 182.

Mesotrema elegans (Hering) Papenfuss, 1942: 449.

Hemitrema elegans (Hering) Doty, 1954: 229.

Capraella elegans (Hering) De Toni, 1936: 7.

Mastocarpus papillatus Kuetzing, 1849. *Species algarum*, p. 734 partim; 1867. *Tab. phyc.*, pl. 45.

Gigartina stiriata (Turner) J. Agardh, 1851: 277.

Mastocarpus polycarpus Kuetzing, 1849. *Species algarum*, p. 733.

Gigartina polycarpa (Kuetzing) Setchell et Gardner, 1933: 295.

Mastocarpus stiriatus Kuetzing, 1843. *Phycologia generalis* ... p. 398.

Gigartina stiriata (Turner) J Agardh, 1851: 277.

Mastophora flabellata (Sonder) Harvey, 1849: 108.

Metamastophora flabellata (Sonder) Setchell, 1943: 131.

Mastophora hypoleuca Harvey, 1847. *Nereis australis* ... p. 108, pl. 41, figs 1–3.

Metamastophora flabellata (Sonder) Setchell, 1943: 131.

Mastophora lamourouxii Decaisne ex Harvey, 1847. *Nereis australis* ... p. 108, pl. 41.

Metamastophora flabellata (Sonder) Setchell 1943: 131.

Mastophora stelligera Endlicher et Diesing, 1845. *Bot. Ztg.* 3(17): 290. (A Barton (1893: 202) record).

Metamastophora flabellata (Sonder) Setchell, 1943: 131.

Melanocolax velutina Martin et Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55: 58, text figs 6 and 7.

Melobesia brassica-florida Harvey, 1847. *Nereis australis* ... p. 110.

Neogoniolithon brassica-florida (Harvey) Setchell et Mason, 1943: 91.

Melobesia corticiformis Kuetzing, 1847. *Bot. Ztg.* 5(3): 33.

Lithothamnium corticiformis (Kuetzing) Foslie, 1898: 4.

Melobesia farinosa Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 315, pl. 12, fig. 3.

Fosliella farinosa (Lamouroux) Howe, 1920: 587.

Melobesia flabellata Sonder, 1845: 55.

Metamastophora flabellata (Sonder) Setchell, 1943: 131.

Melobesia mamillaris Harvey, 1847. *Nereis australis* ... p. 109.

Neogoniolithon mamillare (Harvey) Setchell et Mason 1943: 91.

Melobesia membranacea (Esper) Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 315.

Lithothamnium membranaceum (Esper) Foslie, 1900: 15.

Lithothamnium corticiformis (Kuetzing) Foslie, 1898: 4.

Melobesia patena Hooker f. et Harvey in Harvey, 1847. *Nereis australis* ... p. 11, pl. 40.

Polyporolithon patena (Hooker f. et Harvey) L.R. Mason, 1953: 317.

Melobesia polymorpha Harvey, 1841. *A Manual of the British Algae,* ed. 2, p. 108.

Phytomatolithon polymorpha (Linnaeus) Foslie, 1898: 4.

Melobesia pustulata Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 315, pl. 12, fig. 2.

Dermatolithon corallinae (Crouan frat.) Foslie in Boergesen 1902: 402.

Melobesia (Mastophora) stelligera Endlicher et Diesing, 1845: *Bot. Ztg.* 3(17): 290.

Metamastophora flabellata (Sonder) Setchell, 1943: 131.

Melobesia thuretii Bornet in Thuret, 1878. *Études phycologiques* p. 96, pl. 50, figs 1–8.

Choreonema thuretii (Bornet) Schmitz, 1889: 455.

Meristotheca natalensis J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 583.

Cryptonemia natalensis (J. Agardh) Chiang, 1970: 57, figs 27–29, pl. 7.

Mertensia lumbricalis Roth, 1806. *Catalecta Botanica,* 3: 318, pl. 10.

Champia lumbricalis (Roth) Desvaux, 1808: 245.

Mesogloia natalensis Kuetzing, 1847. *Bot. Ztg.* 5: 53.

Levringia natalensis (Kuetzing) Kylin 1940: 15.

Mesogloia virescens Carmichael in Hooker, 1833. *British Flora* 2(1): 387.

Eudesme virescens (Carmichael) J. Agardh, 1880: 31.

Mesogloia vermicularis C. Agardh. See Delf and Michell, 1921: 98.

Mesotrema elegans (Hering) Papenfuss, 1942. *Proc. natn. Acad. Sci., U.S.A.* 28: 449.

Martensia elegans Hering, 1841: 92.

Metamastophora flabellata (Sonder) Setchell, 1943: *Proc. natn. Acad. Sci. U.S.A.* 29: 131.

Melobesia flabellata Sonder, 1845: 55.

Mastophora flabellata (Sonder) Harvey, 1849: 108.

Mastophora hypoleuca Harvey, 1849: 108, pl. 41, figs 1–3.

Mastophora lamourouxii Decaisne ex Harvey, 1849: 108, pl. 41, figs 1–5.

Metamastophora lamourouxii (Decaisne ex Harvey) Setchell, 1943: 131.

Metamastophora stelligera (Endlicher et Diesing) Setchell, 1943: 132.

Melobesia stelligera Endlicher et Diesing, 1845: 290.

Peyssonnelia caulescens Kuetzing 1849: 694. [for other synonyms see Woelkerling 1980: 232].

Metamastophora lamourouxii (Decaisne ex Harvey) Setchell, 1943. *Proc. natn. Acad. Sci., U.S.A.* 29: 131.

Metamastophora flabellata (Sonder) Setchell, 1943: 131.

Metamastophora stelligera (Endlicher et Diesing) Setchell, 1943. *Proc. natn. Acad. Sci., U.S.A.* 29: 132.

Metamastophora flabellata (Sonder) Setchell, 1943: 131.

Microcladia capensis (Kuetzing) Papenfuss, 1940. *Bot. Notiser* 1940: 223.

Ceramium capense Kuetzing, 1841: 740; Simons 1966: 164.

Microcladia gelidii Simons, 1967. *Bothalia* 9: 351–355.

Microcoelia kallymenioides Holmes, 1894. *Ann. Bot.* 8: 339, pl. 18.

Hymenocladia kallymenioides (Holmes) Schmitz, 1896: 13.

Microcolax africana Martin et Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55(356): 56, pl. 12 a–c, figs 5 a–d.

Microdictyon kraussii J.E. Gray, 1866. *J. Bot., Lond.* 4: 69.

Microdictyon montagnei Harvey ex J.E. Gray, 1866. *J. Bot., Lond.* 4: 69.

Boodlea montagnei (Harvey ex J.E. Gray) Egerod, 1952: 332.

Moniliforma triquetra (C. Agardh) Decaisne, 1841. *Arch. Mus. natn. Hist. nat. Paris* 2: 145.

Hormophysa triquetra (C. Agardh) Kuetzing, 1843: 359.

Monostroma sp. (A Pocock record for Inhaca, see MacNae and Kalk (1958: 24).

Murrayella periclados (C. Agardh) Schmitz, 1893. *Ber. dt. bot. Ges.* 11(3): 227. (A Pocock record for Inhaca, see MacNae and Kalk (1958: 27).

Mychodea filiformis Kuetzing, 1867. *Tabulae phycologicae* ... 17: 24, pl. 82, figs c, d.

Papenfuss 1943, *Jl S. Afr. Bot.* 9: 87, excludes this species (under Barton's name '*?Euhymenia filiformis*') from the South African flora.

Myriocladia capensis J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 54. (Recorded in Delf and Michell (1921: 97) and Stephenson (1948).

Myriogloia abbreviata Kylin, 1940. *Lunds Univ. Årsskr.* N.F., Avd. 2, 36(9): 14, fig 9, d–e.

Myriogloia papenfussii Kylin, 1940. *Lunds Univ. Årsskr.* N.F., Avd. 2, 36(9): 13, pl. 1, fig. 1; text fig. 9 a–c.

Myrioglossa beckeriana Holmes, 1894: 340.

Botryocladia beckeriana (Holmes) Papenfuss, 1958: 107.

Myriogramme undulata (Kuetzing) Kylin, 1924. *Lunds Univ. Årsskr.* N.F., Avd. 2, 20(6): 59.

Polyneura venosa (Harvey) Papenfuss, 1968: 277.

Myrionema ? expansum J. Agardh, 1847. *K. svenska Vet.-Akad. Förh.* 4: 7.

Ralfsia expansa (J. Agardh) J. Agardh, 1848: 63.

Nemacystus subsimplex Kylin, 1940. *Lunds Univ. Årsskr.* N.F., Avd., 2, 36(9): 48, pl. 8, fig. 19, text fig. 26 a–b.

Nemalion furcellatum Reinbold apud Tyson, 1912. *J. Bot., Lond.* 50: 199.

Helminthora furcellata (Reinbold apud Tyson) Martin, 1947: 371.

Nemastoma lanceolata J. Agardh, 1848. *K. svenska Vet.-Akad. Förh.* 5: 48.

Iridaea pappeana Sonder in Kuetzing, 1867: pl. 19.

Neogoniolithon brassica-florida (Harvey) Setchell et Mason, 1943: 91.

Goniolithon brassica-florida (Harvey) Foslie, 1905: 20.

Melobesia brassica-florida Harvey, 1849: 110.

Neogoniolithon fosliei (Heydrich) Setchell et Mason, 1943. *Proc. natn. Acad. Sci., U.S.A.* 29: 90.

Lithothamnium fosliei Heydrich, 1897: 58 partim.

Neogoniolithon mamillare (Harvey) Setchell et Mason, 1943: 91.

Melobesia mamillaris Harvey, 1849: 109, pl. 41.

Neomeris dumetosa Lamouroux, 1816. *Histoire des polypiers coralligènes flexibles* ... p. 243.

Howe, 1909. *Bull. Torrey Bot. Club.* 36: 77.

Isaac, 1956. *Jl S. Afr. Bot.* 22(4): 175.

Neomeris vanbosseae Howe, 1909. *Bull. Torrey Bot. Club* 36(2): 80, pl. 1, figs 4–7, pl. 5, figs 17–19.

Neuroglossum binderianum Kuetzing, 1843. *Phycologia generalis* ... p. 446, pl. 65, II.

Wagner, 1954. *Univ. Calif. Publs Bot.* 27(5): 315, figs 141–158.

Neurymenia fraxinifolia (Mertens ex Turner) J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 1135.

Papenfuss, 1953. *Jl S. Afr. Bot.* 17(4): 181.

Fucus fraxinifolius Mertens ex Turner, 1811: 140, pl. 193.

Nienburgia pinnatifida (Suhr) Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 275.

Nitophyllum pinnatifidum Suhr, 1834: 726.

Nitophyllum kowiensis Schmitz ex Delf et Michell, 1921, p. 111 (nomen nudum).

Nienburgia serrata (Suhr) Papenfuss, 1956. *Jl S. Afr. Bot.* 22(2): 73.

Nitophyllum serratum Suhr 1836: 342.

Nitophyllum acrospermum J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 655 (with respect to syn. *N. deformatum* Suhr and the specimen of Suhr only). See Papenfuss, 1943: 90.

Acrosorium acrospermum (J. Agardh) Kylin, 1924: 78 (see Papenfuss, 1939: 11).

Nitophyllum capense Harvey in Barton, 1893: 144. (nomen nudum).

Polyneura venosa (Harvey) Papenfuss 1968: 277.

Nitophyllum deformatum Suhr, 1841. *Verhandl. Kaiserl. Leopold. Carol. Akad. Naturf.* 18, Suppl. 1: 282, pl. 2, fig. 5.

Acrosorium deformatum (Suhr) Papenfuss 1943: 90.

Nitophyllum fissum (Greville) J. Agardh, 1872. *Lunds Univ. Årsskr.* Afd. 2, 8(6): 51.

Hymenena venosa (Linnaeus) Kylin 1924: 83.

Nitophyllum kowiensis Schmitz ex Delf et Michell, 1921: 111 (nomen nudum).

Nienburgia pinnatifida (Suhr) Papenfuss, 1968: 275.

Nitophyllum maculatum Grunow, 1868. *Algen Novara* ... p. 85.

Acrosorium maculatum (Kuetzing) Papenfuss, 1940: 224.

Nitophyllum pinnatifidum Suhr, 1834. *Flora, Jena* 17: 726, figs 7, k and l.

Nienburgia pinnatifida (Suhr) Papenfuss, 1968: 275.

Nitophyllum platycarpum (Turner) J. Agardh, 1872. *Lunds Univ. Årsskr.* Afd. 2, 8(6): 51.

Botryoglossum platycarpum (Turner) Kuetzing, 1843: 446.

Nitophyllum reptans Crouan, 1851. *Ann. Sci. nat. Bot.* ser. 3, 15: 365.

Acrosorium reptans (Crouan) Kylin, 1924: 77.

Nitophyllum serratum Suhr, 1836. *Flora, Jena* 19: 342, pl. 4, fig. 29.

Nienburgia serrata (Suhr) Papenfuss, 1956: 73.

Nitophyllum uncinatum (Turner) J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 654.

Acrosorium uncinatum (Turner) Kylin, 1924: 78.

Nitophyllum uncinatum var. ? *maculatum* De Toni, 1900. *Sylloge algarum* ... 4(2): 651.

Acrosorium maculatum (Kuetzing) Papenfuss, 1940: 224.

Nitophyllum undulatum (Kuetzing) J. Agardh, 1852. *Species genera et ordines algarum* ... 2: 663.

Polyneura venosa (Harvey) Papenfuss, 1968: 277.

Nitophyllum venosum Harvey, 1847. *Nereis australis* ... p. 118.

Polyneura venosa (Harvey) Papenfuss, 1968: 277.

Ochlochaete ferox Huber, 1892: 290, pl. X, figs 1–10. Epighytic on *Zostera* in Swartkops River estuary).

Ochtodes capensis J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 359 (ref. De Toni 4: 1673). Doubtful record.

Oerstedtia scalaris Trevisan, 1848. *Saggio di una Monografia della Alghe cocotal.*

Carpophyllum scalare Suhr 1840: 257.

Omphalophyllum sp. – see Pocock (1955: 73–75) for mention of the genus.

Onychocolax polysiphoniae Pocock, 1956. *Proc. Linn. Soc. Lond.* 167: 32, pls. 5, 6, text-figs 5, 6.

Ophidocladus californica (Hollenberg) Kylin, 1956. *Die Gattungen der Rhodophyceen*, p. 542.

Ophidocladus simpliciusculus (Crouan) Falkenberg, 1897: 461.

Ophidocladus herposiphonioides Joly et Yamagushi, 1963. *Fac. Fil., Ciênc. e Letras da U.S.P. Botânico* 20: 60.

Ophidocladus simpliciusculus (Crouan) Falkenberg, 1897: 461.

Ophidocladus simpliciusculus (Crouan) Falkenberg in Schmitz et Falkenberg, 1897 in Engler and Prantl, *Natur. Pflanzen*. 1(2): 461.

Falkenberg, 1901. *Fauna Flora Golf. Neapel.* 488, pl. 9, fig. 16–20.

Saenger, 1971. *Jl S. Afr. Bot.* 37(4): 291.

Ophidocladus californica (Hollenberg) Kylin, 1956: 542.

Ophidocladus herposiphonioides Joly et Yamaguishi, 1963: 60.

Polysiphonia obscura Harvey, 1854: 541 [non *Polysiphonia obscura* (C. Agardh) J. Agardh, 1842: 123 = *Lophosiphonia obscura* (C. Agardh) Falkenberg 1901: 500].

Polysiphonia corallioides Suhr in Kuetzing, 1864: 18.

Rhodosiphonia californica Hollenberg 1943: 573.

Polysiphonia simpliciuscula Crouan 1867: 157.

Orcasia pulla Simons, 1970. *Div. Sea Fisheries Investig. Report* No. 88: 8, figs 7, 8 a–d.

Orthosorus nigrescens (Sonder) Trevisan, 1849. *Linnaea* 22: 460.

Lobophora variegata (Lamouroux) Womersley, 1967: 221.

Orthosorus variegatus (Lamouroux) Trevisan, 1849. *Linnaea* 22: 459.

Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss 1943: 467).

Pachychaeta brachyarthra (Kuetzing) Trevisan, 1875. *Rend. R. Inst. Lombardo*, ser. 2, 8: 384.

Hommersand, 1963. *Univ. Calif. Publs Bot.* 35(2): 277, figs 44–50.

Griffithsia brachyarthra Kuetzing in Hohenacker, 1860: 437.

Pachychaeta griffithsioides Kuetzing, 1862: 11.

Pachychaeta cryptoclada Falkenberg, 1901. *Fauna Flora Golf. Neapel.*, p. 577, pl. 13, fig. 16.

Pachychaeta griffithsioides Kuetzing, 1862. *Tabulae phycologicae* ... 12: 11, pl. 35.

Pachychaeta brachyarthra (Kuetzing) Trevisan, 1875: 384.

Pachymenia carnosa (J. Agardh) J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 145.

Chiang, 1970. *Univ. Calif. Publs Bot.* 58: 18, fig. 7 a–h, pl. 3, 4 a–c.

Platymenia carnosa J. Agardh, 1848: 48; 1849: 89.

Schizymenia carnosa (J. Agardh) J. Agardh, 1851: 173.

Iridaea carnosa (J. Agardh) Kuetzing, 1867: 5, pl. 17.

Pachymenia cornea (Kuetzing) Chiang, 1970. *Univ. Calif. Publs Bot.* 58: 22, fig. 8 a–c, pl. 5a.

Iridaea cornea Kuetzing, 1867: 6, pl. 20.

Cyrtymenia cornea (Kuetzing) Schmitz, 1896: 16.

Phyllymenia cornea (Kuetzing) Setchell et Gardner, 1936: 473.

Pachymenia rugosa Holmes, 1894, p. 340.

Pachymenia rugosa Holmes, 1894. *Ann. Bot.* 8(31): 340.

Pachymenia cornea (Kuetzing) Chiang, 1970: 22.

Padina boryana Thivy in Taylor, 1966: 355. (See Price et alia (1978: 139) Womersley and Bailey (1970: 293) and Papenfuss (1977: 275) for discussion).

Padina commersonii Bory, 1828. *Voy. Coquille*, n. 41, pl. 21, fig. 2.

Lobophora variegata (Lamouroux) Womersley, 1967: 221.

Padina fraseri (Greville) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 114. (Refer to De Toni (1897: 246) who gives 'ad Portum Natalensem?' as a locality).

Padina pavonia Gaillon; Delf and Michell (1921: 100) list this record of Barton's.

Padina plumbea (Areschoug) Levring, 1940. *K. fysiogr. Sällsk Lund Förh.* 10(20): 10, fig. 5.

Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 82.

Zonaria plumbea Areschoug, 1851: 25.

Chlanidophora plumbea Areschoug (Papenfuss) 1940: 204, fig. 5.

Padina tetrastromatica Hauck, 1887. *Hedwigia* 26(2): 43.

Padina variegata (Lamouroux) Gaillon, 1828. *Dict. Nat.*, 53: 371.

Papenfuss, 1943. *Am. J. Bot.* 30: 467.

Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss, 1943: 467).

Papenfussia elegans Kylin, 1938. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 34(8): 16, pl. 5, fig. 14, text fig. 8.

Pollexfenia laciniata Harvey, 1844: 432.

Papenfussia laciniata (Harvey) Kylin, 1956. *Die Gattungen der Rhodophyceen*, p. 444.

Pollexfenia laciniata Harvey, 1844: 432.

Papenfussia minuta Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 17, pl. 5, fig. 15.

Pollexfenia minuta (Kylin) Papenfuss, 1942: 447.

Papenfussia (Pollexfenia) multipartita Papenfuss ined. A Stephenson (1948: 307) record from East London.

Papenfussiella gracilis Kylin, 1940. *Lunds Univ. Årsskr.* N.F., Avd. 2, 36(9): 17, pl. 2, fig. 4, text fig. 11 a–c.

Chordaria sordida Bory, 1827–1829: 139.

Papenfussiella laxa Kylin, 1940. *Lunds Univ. Årsskr.* N.F., Avd. 2, 36(9): 19, pl. 2, fig. 5, text fig. 11F.

Pelvetia capensis De Toni, 1895. *Sylloge algarum* ... 3: 215.

Bifurcariopsis capensis (Areschoug) Papenfuss, 1940: 212.

Percursaria percursa (C. Agardh) Bory, in Reinbold, 1893: 201.

Papenfuss, 1962: 311, 314.

Conferva percursa C. Agardh, 1817: 87.

Perischelia glomulifera (J. Agardh) J. Agardh, 1897. *Lunds Univ. Årsskr.* Afd. 2, 8(9): 34.

Thamnocarpus ? glomuliferus J. Agardh, 1884: 6 (nomen nudum).

Spyridia glomulifera (J. Agardh) Bracebridge, 1896: 460.

Petalonia fascia (O.F. Mueller) Kuntze, 1898. *Rev. gén. Bot.* 3(2): 419.

Fucus fascia O.F. Mueller, 1778: 7.

Phyllitis fascia (O.F. Mueller) Kuetzing, 1843: 342.

Ilea fascia (O.F. Mueller) Fries, 1835: 321.

Petrospongium rugosum (Okamura) Setchell et Gardner, 1924. *Univ. Calif. Publs Bot.* 13(8): 12.

Peyssonnelia australis Sonder, 1853: 685.

Peyssonnelia capensis Montagne, 1847: 177.

Peyssonnelia capensis Montagne, 1847. *Ann. Sci. nat. Bot.* sér. 3, 6: 177.

Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 175.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 275.

Womersley and Sinkora, 1981. *Trans. Roy. Soc. S. Aust.* 105(1 and 2): 85–87.

Peyssonnelia squamaria sensu Krauss, 1846: 209; sensu Barton, 1893: 142; 1896: 197.

Peyssonnelia australis, Sonder, 1853: 685.

Peyssonnelia major Kuetzing, 1849: 693.

Peyssonnelia gunniana J. Agardh, 1876: 387.

Ralfsia major Kuetzing, 1859: 32, pl. 77, fig. 4.

Peyssonnelia caulescens Kuetzing, 1849. *Species algarum* p. 694.

Metamastophora flabellata (Sonder) Setchell, 1943: 131.

Peyssonnelia conchicola Piccone et Grunow, 1884. *Nuovo G. bot. ital.* 16: 317, pl. 7, figs 5–8.

Peyssonnelia gunniana J. Agardh, 1876: 387.

Peyssonnelia capensis Montagne, 1847: 177.

Peyssonnelia major Kuetzing, 1849. *Species algarum,* p. 693; 1869: 31, pl. 88.

Peyssonnelia capensis Montagne, 1847: 177.

Peyssonnelia replicata Kuetzing, 1847. *Flora, Jena* 30: 775; 1849: 694.

Peyssonnelia squamaria sensu Krauss, 1846: 209; sensu Barton, 1893: 142; 1896: 197.

Peyssonnelia capensis Montagne, 1847: 177.

Phacelocarpus complanatus Harvey in Hooker, 1860. *Fl. Tasman.* 2: 313. (tentative identification of Pocock from Inhaca in MacNae and Kalk, 1958: 26).

Phacelocarpus disciger Holmes et Batters; see Delf and Michell (1921: 107) who list this species as = *P. epipolaeus* Holmes. In De Toni (IV: 393)

P. disciger is listed as a manuscript name.

Phacelocarpus echinatus Suhr; Delf and Michell (1921: 107) record this species for 'The Kowie, submerged rocks, Hagahaga mouth.' The name is probably confused with that of *P. echionotus* J. Agardh – an Australian species.

Phacelocarpus epipolaeus Holmes, 1894. *Trans. Proc. bot. Soc. Edinb.* 20: 79, pl. I.

Phacelocarpus tortuosus Endlicher et Diesing, 1845: 290.

Phacelocarpus labillardieri (Turner) J. Agardh, 1852. *Species genera et ordines algarum* ... 2(2): 648.

Searles (1968: 15) says that this species belongs to the Australian flora, so the record of Barton (1893) of this species for South Africa is in error.

Phacelocarpus oligacanthus Kuetzing, 1868. *Tabulae phycologicae* ... 18: 25, pl. 71, fig. a, b.

Searles, 1968. *Univ. Calif. Publs Bot.* 43: 28, figs 12 and 13.

Phacelocarpus tortuosus Endlicher et Diesing, 1845. *Bot. Ztg.* 3(17): 290.

Searles, 1968. *Univ. Calif. Publs Bot.* 43: 31, fig. 14.

Phacelocarpus epipolaeus Holmes, 1894: 79.

Phacelocarpus semitortus Schmitz ex Mazza, 1907: 74.

Euctenodus echinatus Suhr ex Kuetzing, 1849: 770.

Phacelocarpus tristichus J. Agardh, 1885. *Lunds Univ. Årsskr.* Afd. 3, 21(8): 57.

Searles, 1968: 22, says Mozambique (Xai Xai) is the southernmost record.

Phitymophora crenata J. Agardh, 1898. *Species genera et ordines algarum* ... 3(3): 174 (nomen nudum).

Bartoniella crenata Kylin, 1924: 11.

Phlebothamnion compressum Kuetzing, 1864. *Tabulae phycologicae* ... 14: 32, pl. 91, figs c and d.

Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Phlebothamnion purpuriferum Kuetzing, 1849. *Species algarum*, p. 656; 1862: 3, pl. 7, figs c–e.

Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Phlebothamnion squarrosum Kuetzing, 1849. *Species algarum*, p. 659; 1862: 5, pl. 15, figs a–c.

Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Phloiocaulon squamulosum (Suhr) Geyler, 1866. *Sphacelar.*, p. 509, pl. 35, fig. 9–13. (See De Toni (1895: 519) for the following synonyms).

Sphacelaria squamulosa Suhr, 1834: 738.

Chaetopteris squamulosa (Turner) Kuetzing, 1849: 468.

Chaetopteris suhrii J. Agardh, 1848: 40.

Fucus squamulosus Turner, 1809: pl. 128.

Phycopteris angustata Kuetzing, 1859. *Tabulae phycologicae* ... 9: 28, pl. 69, fig. 1.

Zonaria subarticulata (Lamouroux) Papenfuss, 1944: 339.

Phycopteris cuneata Kuetzing, 1859. *Tabulae phycologicae* ... 9: 27, pl. 67, fig. 2.

Zonaria subarticulata (Lamouroux) Papenfuss, 1951: 168.

Phycopteris harveyana Pappe ex Kuetzing, 1849. *Species algarum,* p. 564.

Zonaria harveyana (Pappe ex Kuetzing) Areschoug, 1851: 26.

Phycopteris interrupta (Lamouroux) Kuetzing, 1849. *Species algarum*, p. 564 (in part); 1859 *Tabulae phycologicae* ... 9: 27, pl. 67, fig. 1.

Zonaria subarticulata (Lamouroux) Papenfuss, 1944: 339.

Phyllacantha myrica (S.G. Gmelin) Kuetzing, 1849. *Species algarum*, p. 598.

Cystoseira myrica (S.G. Gmelin) C. Agardh, 1820: 53.

Phyllaria reniformis (Lamouroux) Rostafinsky in Bornet, 1892. *Alg. Schousboe,* p. 250.

Lamouroux cited South Africa as the source of his specimens but the species belongs to the Mediterranean and not South Africa (Papenfuss 1952: 170).

Phyllitis fascia (O.F. Mueller) Kuetzing, 1843. *Phycologia generalis,* p. 342.

Petalonia fascia (O.F. Mueller) Kuntze, 1898: 419.

Phyllophora diversifolia Suhr, 1840. *Flora, Jena* 23: 262

Ptilophora diversifolia (Suhr) Papenfuss, 1940: 214.

Phyllophora maillardii Montagne et Millardet, In Maillard, 1862. *Notes sur l'Île de Réunion,* P. 8.

Carpopeltis maillardii (Montagne et Millardet) Chiang, 1970: 68.

Phyllophora obtusa Greville, 1831. *Edin. Journ. nat. and geogr. Sci.,* New Series No. 3, 3: pl. 4.

Epymenia obtusa (Greville) Kuetzing, 1849: 789.

Phyllophora pristoides Greville, 1830. *Algae britannicae,* p. 56.

Gelidium pristoides (Turner) Kuetzing, 1843: 407.

Phyllophora reptans Suhr, 1841. *Verhandl. Kaiserl. Leopold.-Carol. Akad. d. Naturf.* 18 (Suppl. 1): 285, pl. 3, fig. 10.

Gelidium reptans (Surh) Kylin, 1938: 6.

Phyllophora spissa Suhr, 1840. *Flora, Jena* 23: 262.

Ptilophora spissa (Suhr) Kuetzing, 1847: 25.

Phyllophora vittata Greville, 1830. *Algae britannicae,* p. 56.

Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Phyllotylis flabellatus J. Agardh, 1847. *K. svenska Vet.-Akad. Förh.* 4: 9.

Trematocarpus flabellatus (J. Agardh) De Toni, 1900: 418.

Phyllymenia belangeri (Bory) Setchell et Gardner, 1936. *Proc. natn. Acad. Sci.* 22: 473.

Chiang, 1970. *Univ. Calif. Publs Bot.* 58: 35, fig. 15–17, pl. 5b.

Iridaea belangeri Bory in Bélanger, 1834: 160, pl. 15, fig. 1.

Phyllymenia hieroglyphica J. Agardh, 1848: 47.

Iridaea labyrinthifolia Kuetzing, 1849: 729.

Grateloupia hieroglyphica (J. Agardh) J. Agardh, 1851: 183.

Cyrtymenia hieroglyphica (J. Agardh) Schmitz in Schmitz and Haupfleisch, 1897: 511.

Phyllymenia cornea (Kuetzing) Setchell et Gardner, 1936. *Proc. natn. Acad. Sci. U.S.A.* 22(8): 473.

Pachymenia cornea (Kuetzing) Chiang, 1970: 22.

Phyllymenia hieroglyphica J. Agardh, 1848. *K. svenska Vet.-Akad. Förh.* 5: 47.

Phyllymenia belangeri (Bory) Setchell et Gardner, 1936: 473.

Phytomatolithon polymorphum (Linnaeus) Foslie, 1898 *Syst. Surv. of Lithothamnia,* p. 4. (Refer De Toni, 1897: 1724).

Lithothamnium polymorphum (Linnaeus) Areschoug in J. Agardh, 1852: 524.

Melobesia polymorpha Harvey, 1841: 108.

Pilaiella fulvescens (Schousboe) Bornet, 1889: 9. A Stephenson (1948) record.

Bachelotia antillarum (Grunow) Gerloff, 1959: 38.

Pilinia rimosa Kuetzing, 1843: 273. On *Ecklonia biruncinata* stipe in Papenfuss herbarium.

Pinnaria fastigiata Endlicher et Diesing, 1845. *Bot. Ztg.,* 3: 289.

Ecklonia fastigiata (Endlicher et Diesing) Papenfuss, 1940: 207.

Placophora binderi (J. Agardh) J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 1138.

Amansia binderi J. Agardh, 1841: 26.

Placophora eckloniae Pocock ex Scagel, 1953. *Univ. Calif. Publs Bot.* 27: 36–39.

Pocock, 1953. *J. Linn. Soc. Bot.* 55: 37, text figs 2 and 6; pl. 7, figs A–H.

Placophora monocarpa (Montagne) Papenfuss, 1956: 73.

Placophora monocarpa (Montagne) Papenfuss, 1956. *Jl S. Afr. Bot.* 22(2): 73.

Polysiphonia monocarpa Montagne, 1842: 254.

Herposiphonia ? monocarpa (Montagne) De T 1903: 1061.

Placophora eckloniae Pocock ex Scagel, 1953: 36–39; Pocock 1953: 37, figs 2, 6, pl. 7.

Platymenia apoda J. Agardh, 1847. *K. svenska Vet.-Akad. Förh.* 5: 47.

Schizymenia apoda (J. Agardh) J. Agardh, 1851: 175.

Platymenia carnosa J. Agardh, 1848. *K. svenska Vet.-Akad. Förh.* 5: 48.

Pachymenia carnosa (J. Agardh) J. Agardh, 1876: 145.

Platymenia erosa J. Agardh, 1848. *K. svenska Vet.-Akad. Förh.* 5: 48.

Schizymenia erosa (J. Agardh) J. Agardh, 1851: 176.

Platymenia undulata J. Agardh, 1848. *K. svenska Vet.-Akad. Förh.* 5: 47.

Grateloupia longifolia Kylin, 1938: 9.

Platymenia undulata var. *linearis* J. Agardh, 1849. *K. svenska Vet.-Akad. Förh.* 6: 88.

Grateloupia longifolia Kylin, 1938: 9.

Platymenia undulata var. *obovata* J. Agardh, 1849. *K. svenska Vet.-Akad. Förh.* 6: 88.

Schizymenia obovata (J. Agardh) J. Agardh, 1851: 175.

Platysiphonia intermedia (Grunow) Silva et Cleary, 1954. *Am. J. Bot.* 41: 251.

Sarcomenia intermedia Grunow, 1868: 92.

Platysiphonia miniata (C. Agardh) Boergesen, 1931. *Trav. crypt. dédiés à Louis Mangin,* p. 21.

Hutchinsia miniata C. Agardh, 1828: 94.

Sarcomenia miniata (C. Agardh) J. Agardh, 1863: 1260.

Polysiphonia miniata (C. Agardh) Endlicher, 1843: 45.

Pleonosporium borreri (Smith) Naegeli, 1861: 342. A Barton (1893) record, probably a misidentification for *Pleonosporium harveyanum* (J. Agardh) De Toni.

Pleonosporium filicinum (Harvey ex J. Agardh) De Toni, 1903. *Sylloge algarum* ... 4: 1308.

Halothamnion filicinum Harvey ex J. Agardh, 1876: 54.

Pleonosporium harveyanum (J. Agardh) De Toni, 1903. *Sylloge algarum* ... 4: 1309.

Halothamnion harveyanum J. Agardh, 1876: 55.

Callithamnion pennatum Harvey mscr.

Pleonosporium purpuriferum (Kuetzing) De Toni, 1903. *Sylloge algarum* ... 4: 1307.

Aristothamnion collabens (Rudolphi) Papenfuss, 1968: 268.

Pleonosporium tysonii (Barton) Barton, 1896. *J. Bot., Lond.* 34: 195.

Aristothamnion tysonii Barton, 1893: 204.

Plocamiocolax papenfussiana Martin et Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55: 50, text figs 2a, 3c, 4a.

Plocamium abnorme Okamura, 1913. *Icon. Jap. Alg.* 3: 1–4, pl. 101.

Plocamium telfairiae (Harvey) Harvey ex Kuetzing, 1849: 885.

Plocamium affine Kuetzing, 1849. *Species algarum,* p. 884. The herbarium specimen of this species in the British Museum has been annotated by Papenfuss as belonging to **Plocamium glomeratum** J. Agardh.

Plocamium beckeri Simons, 1964. *Bothalia* 8(2): 185, fig. 3.

Plocamium coccineum (Hudson) Lyngbye, 1819. *Hydr.,* p. 39. A record of Delf and Michell (1921: 110). An herbarium sheet of this species has been annotated *Plocamium cartilagineum* (Linnaeus) Dixon, which is not a South African species.

Plocamium condensatum Keutzing, 1866. *Tabulae phycologicae* ... 16: 17, pl. 49, fig. c, d.

According to Delf and Michell, 1921: 110, *Plocamium condensatum* Kuetzing is a tetrasporic form of cystocarpic **Plocamium rigidum** Bory.

Plocamium corallorhiza (Turner) Harvey in Hooker et Harvey, 1845. *J. Bot., Lond.* 4: 542.

Simons, 1964. *Bothalia* 8(2): 191.

Fucus corallorhiza Turner, 1809: pl. 96.

Plocamium robertiae Schmitz ex Mazza, 1908: 18.

Fucus cirrhosis Turner, 1808: pl. 63.

Thamnophora corallorhiza C. Agardh, 1822: 225.

Plocamium cornutum (Turner) Harvey, 1847. *Nereis australis* ... p. 123.

Simons, 1964. *Bothalia* 8(2): 189, fig. 5.

Fucus cornutus Turner, 1819: 152, pl. 258.

Thamnophora cornuta Greville, 1830: 49.

Thamnocarpus cornutus Kuetzing, 1843, pl. 59.

Sphaerococcus cornutus C. Agardh, 1822: 293.

Plocamium fullerae Schmitz ex Mazza, 1908. *Nuova Notarisia* 19: 221.

Plocamium suhrii Kuetzing, 1849: 886.

Plocamium glomeratum J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 397.

Simons, 1964. *Bothalia* 9(2): 183.

Plocamium subfastigatum Kuetzing, 1866: 18, pl. 51, figs e, f.

Plocamium latiusculum Kuetzing, 1866. *Tabulae phycologicae* ... 16: 17, pl. 47, fig. d–e.

Plocamium rigidum Bory in Bélanger, 1834: 164.

Plocamium leptophyllum Kuetzing, 1849. *Species algarum*, p. 885. A record of Delf and Michell (1921: 111) about which little is known.

Plocamium maxillosum (Poiret) Lamouroux, 1813. *Ann. Mus. natn. Hist. nat. Paris* 20: 138.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 276.

Plocamium membranaceum Suhr, 1840: 261.

Fucus maxillosus Poiret, 1808: 389.

Plocamium membranaceum Suhr, 1840. *Flora, Jena* 23 (17): 261.

Simons, 1964. *Bothalia* 8(2): 185.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 276.

Plocamium maxillosum (Poiret) Lamouroux, 1813: 138.

Plocamium mertensii (Greville) Harvey, 1847. *Nereis australis* ... p. 122. Little is known about this record of Barton (1893). Refer Delf and Michell (1921: 111).

Plocamium nobile J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 397.

Plocamium suhrii Kuetzing, 1849: 886.

Plocamium procerum (C. Agardh) Suhr, 1834. *Flora, Jena* 17(46): 726, nom. illegit.

Plocamium suhrii Kuetzing, 1849: 886.

Plocamium rigidum Bory in Bélanger, 1834. *Voyage aux Indes-Orientales ... Botanique* ... p. 164.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 277.

Simons, 1964. *Bothalia* 8(2): 187.

Plocamium latiusculum Kuetzing, 1866: 17, pl. 47, d–e.

Plocamium condensatum Kuetzing, 1866: 17, pl. 49 c–d.

Plocamium rigidum var. ? *tenuior* Grunow, 1868: 74.

Plocamium robustum Kuetzing, 1866: 17, pl. 49 (this reference in De Toni (1897: 592).

Plocamium rigidum var. ? *tenuior* Grunow, 1868. *Algen Novara,* p. 74.

Plocamium rigidum Bory in Bélanger, 1834: 164. (See Simons (1964: 187) for comment).

Plocamium robertiae Schmitz ex Mazza, 1908. *Nuova Notarisia* 19: 18.

Plocamium corallorhiza (Turner) Harvey in Hooker et Harvey, 1845: 542.

Plocamium robustum Kuetzing, 1866. *Tabulae phycologicae* ... 16: 17, pl. 49, fig. a, b.

Plocamium rigidum Bory, 1834: 164 (according to De Toni (1897: 592).

Plocamium subfastigiatum Kuetzing, 1866. *Tabuale phycologicae* ... 16: 18, pl. 51, fig. e, f.

Plocamium glomeratum J. Agardh, 1851: 397.

Plocamium suhrii Kuetzing, 1849. *Species algarum,* p. 886.

Simons, 1964. *Bothalia* 8(2): 189.

Plocamium procerum Suhr, 1834: 726, nom. illegit.

Plocamium nobile J. Agardh, 1851: 397.

Plocamium fullerae Schmitz ex Mazza, 1908: 221.

Plocamium membranaceum Kylin, 1938. *Lunds Univ. Årsskr.,* N.F., Avd. 2, 34(8): pl. 3, fig. 9.

Plocamium telfairiae Harvey ex Kuetzing, 1849. *Species algarum*, p. 885.

Simons, 1964. *Bothalia* 8(2): 192.

Thamnophora telfairiae Hooker f. et Harvey, 1834: 149.

Plocamium abnorme Okamura, 1913: 1–4, pl. 101.

Plumaria elegans (Bonnemaison) Schmitz, 1896. *Nuova Notarisia* 7: 7.

Gymnothamnion elegans (Schousboe ex C. Agardh) J. Agardh, 1892: 27.

Pocockiella dichotoma Simons, 1966. *Bothalia* 9(1): 171. (*Pocockiella* has been sunk by Womersley (1967: 221) into **Lobophora**). Papenfuss (1977: 281) has proposed *Pocockiella* for conservation against *Lobophora.*

Pocockiella nigrescens (Sonder) Papenfuss, 1943. *Am. J. Bot.* 30(7): 467.

Lobophora variegata (Lamouroux) Womersley, 1967: 221.

Pocockiella variegata (Lamouroux) Papenfuss, 1943. *Am. J. Bot.* 30(7): 467.

Lobophora variegata (Lamouroux) Womersley, 1967: 221.

Pollexfenia laciniata Harvey, 1844. *J. Bot., Lond.* 3: 432.

Papenfuss, 1942. *Proc. natn. Acad. Sci. U.S.A.* 28: 447.

Pollexfenia (Rhodoseris) laciniata Harvey, 1847: 22.

Rhodoseris laciniata (Harvey) Harvey, 1860: 5.

Papenfussia elegans Kylin, 1938: 16.

Pollexfenia (Rhodoseris) laciniata Harvey, 1847. *Nereis australis* ... p. 22.

Pollexfenia laciniata Harvey, 1844: 432.

Pollexfenia minuta (Kylin) Papenfuss, 1942. *Proc. natn. Acad. Sci., U.S.A.* 28: 447.

Papenfussia minuta Kylin, 1938: 17.

Polycladia commersonii Montagne in Kuetzing, 1849. *Species algarum*, p. 769.

Cystoseira myrica (S.G. Gmelin) C. Agardh, 1820: 53.

Polyneura venosa (Harvey) Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 277.

Nitophyllum venosum Harvey, 1847: 118.

Aglaophyllum undulatum Kuetzing, 1849: 868.

Nitophyllum undulatum (Kuetzing) J. Agardh, 1852: 663.

Myriogramme undulata (Kuetzing) Kylin, 1924: 59.

Nitophyllum capense Harvey ex Barton, 1893: 144 (nomen nudum).

Polyopes constrictus (Turner) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 239.

Chiang, 1970. *Univ. Calif. Publs Bot.* 58: 40, pl. 8, figs 18 and 19.

Fucus constrictus Turner, 1811: 40.

Polyphacum smithiae sensu Barton, 1893. *J. Bot., Lond.* 31: 175. This record is based on Flanagan's specimens of **Ptilophora diversifolia** – see Papenfuss (1940: 214).

Polyporolithon patena (Hooker f. et Harvey) L.R. Mason, 1953. *Univ. Calif. Publs Bot.* 26: 317.

Melobesia patena Hooker f. et Harvey, 1847: 111, pl. 40.

Lithothamnium patena (Hooker f. et Harvey) Heydrich, 1897: 413.

Lithothamnium lichenoides (Ellis et Solander) Foslie form *patena* (Hooker et Harvey) Foslie, 1898: 7.

Polysiphonia acanthina J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 936.

Pterosiphonia cloiophylla (C. Agardh) Falkenberg in Engler and Prantl, 1889: 448.

Polysiphonia arenaria Kuetzing, 1845. *Phycologia germanica* ... p. 313. A Barton (1893: 176) record, see Delf and Michell (1921: 114).

Polysiphonia atro-rubescens (Dillwyn) Greville, 1824. *Flora edin.,* p. 308.

Barton (1893: 176) and Delf and Michell (1921: 113) record this species. Little seems to be known about it.

Polysiphonia ceratoclada Montagne, 1842a: 6.

Herposiphonia ceratoclada (Montagne) Falkenberg, 1901: 313, fig. 3, figs 8–9.

Polysiphonia cloiophylla J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 934.

Pterosiphonia cloiophylla (C. Agardh) Falkenberg, 1889: 448.

Polysiphonia complanata (C. Agardh) Sprengel, 1827. *Syst. veg.* 4(1): 350.

Barton (1893: 176) records this species from South Africa, but see Papenfuss (1943: 89) for further comment.

Polysiphonia corallioides Suhr in Kuetzing, 1864. *Tabulae phycologicae* ... 14: 18.

Ophidocladus simpliciusculus (Crouan) Falkenberg, 1897: 461.

Polysiphonia corymbifera (C. Agardh) Harvey, 1847. *Nereis australis* ... p. 54.

Streblocladia corymbifera (C. Agardh) Kylin, 1938: 20.

Polysiphonia corymbifera sensu Delf and Michell, 1921. *Ann. Bolus Herb.* 3(2): 114.

Polysiphonia urbana Harvey, 1847: 55.

Polysiphonia corymbosa sensu Delf and Michell, 1921. *Ann. Bolus Herb.* 3(2): 114.

Polysiphonia urbana Harvey, 1847: 55.

Polysiphonia falcata Kuetzing, 1863. *Tabulae phycologicae* ... 13: 12, pl. 34, figs a–c.

Herposiphonia falcata (Kuetzing) De Toni 1903: 1060.

Polysiphonia fasciculifera Kuetzing, 1849. *Species algarum*, p. 814. A Barton (1893: 175) record, see Delf and Michell (1921: 114).

Polysiphonia gaudichaudii (C. Agardh) Kuetzing, 1843. *Phycologia generalis* ... p. 422. A Barton (1893: 76) record, see Delf and Michell (1921: 114).

Polysiphonia heringii Harvey, 1847. *Nereis australis* ... p. 47.

Herposiphonia heringii (Harvey) Falkenberg, 1901: 314.

Polysiphonia incompta Harvey, 1847. *Nereis australis* ... p. 44.

Papenfuss, 1965. *Jl S. Afr. Bot.* 34(5): 278.

Polysiphonia sertularioides sensu Barton, 1896: 198; see Delf and Michell (1921: 113).

Polysiphonia urceolata sensu Delf and Michell, 1921: 113.

Polysiphonia insidiosa Greville in J. Agardh, 1863: 926.

Herposiphonia insidiosa (Greville) Falkenberg, 1901: 317.

Polysiphonia juncea Kuetzing, 1849. *Species algarum*, p. 813.

Polysiphonia sulcata Rudolphi, 1831: 177.

Polysiphonia linocladia Kuetzing, 1849. *Species algarum*, p. 813.

Polysiphonia sulcata Rudolphi, 1831: 177.

Polysiphonia miniata (C. Agardh) Endlicher, 1843. *Gen. Plant. Suppl.* 3: 45.

Platysiphonia miniata (C. Agardh) Boergesen, 1931: 21.

Polysiphonia monocarpa Montagne, 1842. *Ann. Sci. nat. Bot.* sér. 2, 18: 254.

Placophora monocarpa (Montagne) Papenfuss, 1956: 73.

Polysiphonia ? moritziana Sonder in Kuetzing, 1849. *Species algarum*, p. 838.

Bostrychia moritziana (Sonder in Kuetzing) J. Agardh, 1863: 862.

Polysiphonia nana Kuetzing, 1849. *Species algarum*, p. 879; 1863. *Tab. phyc.* 13: 10, pl. 29, figs e, f [non *Polysiphonia nana* Harvey in Hooker, 1855: 228].

Taenioma nanum (Kuetzing) Papenfuss, 1951: 179 (not a South African species).

Polysiphonia obscura Harvey, 1854. *Hooker's J. Bot.* 6: 541 [non *Polysiphonia obscura* (C. Agardh) J. Agardh, 1842: 123 = *Lophosiphonia obscura* (C. Agardh) Falkenberg, 1900: 500].

Ophidocladus simpliciusculus (Crouan) Falkenberg, 1897: 461. (See Saenger, 1971: 291).

Polysiphonia pappeana Kuetzing, 1849. *Species algarum*, p. 813.

Polysiphonia sulcata Rudolphi, 1831: 177.

Polysiphonia parasitica (Hudson) Greville, 1824. *Flora edin.* p. 309. A record of Barton (1893: 176) for South Africa.

Pterosiphonia parasitica (Hudson) Falkenberg, 1901: 265.

Polysiphonia perpusilla J. Agardh, 1848. *K. svenska Vet.-Akad. Förh.* 4: 16.

Taenioma perpusillum J. Agardh) J. Agardh, 1863: 1257.

Polysiphonia prorepens Harvey, 1847. *Nereis australis* ... p. 50.

Herposiphonia prorepens (Harvey) Schmitz in Engler, 1895: 158.

Polysiphonia rufolanosa Harvey, 1855. *Trans. R. Irish Acad.* 22: 540.

Falkenbergia rufolanosa (Harvey) Schmitz in Engler and Prantl, 1897: 479.

Polysiphonia sertularioides sensu Barton, 1896: 198.

Delf and Michell, 1921: 113.

Polysiphonia incompta Harvey, 1847: 44.

Polysiphonia simpliciuscula Crouan, 1867. *Florule du Finistère*, p. 157.

Ophidocladus simpliciusculus (Crouan) Falkenberg, 1897: 461.

Polysiphonia stangeri J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 937.

Pterosiphonia stangeri (J. Agardh) Falkenberg, 1901: 270.

Polysiphonia sulcata Rudolphi, 1831. *Linnaea* 6: 177.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 278.

Polysiphonia pappeana Kuetzing, 1849: 813.

Polysiphonia linocladia Kuetzing, 1849: 813.

Polysiphonia juncea Kuetzing, 1849: 813.

Polysiphonia urceolata sensu Barton, 1893: 176.

Polysiphonia tenebrosa Harvey, 1847. *Nereis australis* ... p. 55.

Tayloriella tenebrosa (Harvey) Kylin, 1938: 18.

Polysiphonia urbana Harvey, 1847. *Nereis australis* ... p. 55.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 279.

Polysiphonia corymbosa sensu Delf and Michell, 1921: 114.

Polysiphonia corymbifera sensu Delf and Michell, 1921: 114.

Polysiphonia urceolata sensu Barton, 1893: 176.

Polysiphonia sulcata Rudolphi, 1831: 177.

Polysiphonia urceolata sensu Delf and Michell, 1921: 113.

Polysiphonia incompta Harvey, 1847: 44.

Polysiphonia virgata (C. Agardh) Sprengel, 1827. *Systema vegetabilium*, p. 350.

Tayloriella virgata (C. Agardh) Papenfuss, 1940: 14.

Polyzonia elegans Suhr, 1834. *Flora, Jena* 17: 739, pl. 2, fig. 15.

Polyzonia palmatifida Grunow, 1873/74. *Journ. Mus. Godeffroy* 3(6): 50.

Dasyclonium palmatifidum (Grunow) Scagel, 1962: 241.

Porphyra augustinae Kuetzing, 1843. *Phycologia generalis* ... p. 383. A record of Barton (1893: 113).

? Porphyra capensis Kuetzing, 1843: 383.

Porphyra capensis Kuetzing, 1843. *Phycologia generalis* ... p. 383.

Papenfuss, 1940. *Symb. bot. upsal.* 4(3): 11.

Ulva umbilicalis Thunberg, 1807–1820: 751.

? Porphyra augustinae Kuetzing, 1843: 383.

Porphyra laciniata (Lightfoot) C. Agardh, 1824. *Systema algarum,* 190. (See Delf and Michell (1921: 102) for brief discussion). According to P.C. Silva (personal communication, 1970) all the South African records of *P. laciniata* are incorrect determinations.

Porphyra vulgaris C. Agardh, 1829. *Icones algarum europaearum,* No. 28, pl. 28. A record of Barton (1893: 112) for South Africa.

Pringsheimia scutata Reinke, 1888. *Ber. dt. bot. Ges.* 6: 241. A record of Barton (1893) for South Africa.

Pringsheimiella scutata (Reinke) Marchewianka 1924: 42.

Pringsheimiella scutata (Reinke) Marchewianka, 1924. *Polska Akademia Nauk. Komisja Fizyograficzna Sprawozdania, Krakow,* p. 42.

Pringsheimia scutata Reinke, 188: 241.

Prionitis filiformis Kylin, 1941. *Lunds Univ. Årsskr.*, N.F., Avd. 2, 37(2): 13.

Papenfuss (1968: 279) reports it from South Africa for the first time; hitherto it was known only from California.

Prionitis nodifera (Hering) Barton, 1896. *J. Bot., Lond.* 34: 459.

Gigartina nodifera Hering, 1846: 210.

Pseudendoclonium submarinum Wille, 1901: 29, pl. 3, figs 131–134.

Pseudendoclonium marinum (Reinke) Aleem et Schulz, 1952: 72.

Pseudendoclonium marinum (Reinke) Aleem et Schulz, 1952: *Kiel. Meeresf.* 9: 72.

Pseudendoclonium submarinum Wille, 1901: 29, pl. 3.

Pseudocodium devriesii Weber-van Bosse, 1896. *J. Linn. Soc. Lond., Bot.* 32: 209, pl. 1.

Pseudogloiophloea capensis (Setchell) Levring in Svedelius, 1956. *Svensk. bot. Tidskr.* 50: 13, figs 6, 7, 9–14.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 280.

Gloiophloea capensis Setchell, 1914: 117, pl. 16, figs 58 and 59.

Scinaia furcellata sensu Barton, 1893: 144, sensu Delf and Michell, 1921: 102.

Halymenia furcellata sensu Harvey, 1841, p. 52 (pro parte i.e. as to specimens from South Africa).

Pteroceras cancellatum (C. Agardh) Keutzing, 1849. *Species algarum*, p. 690.

Ceramium planum Kuetzing, 1849: 687.

Pteroceras flexuosum Kuetzing, 1849. *Species algarum,* p. 690.

Ceramium planum Kuetzing, 1849: 687.

Pterosiphonia acanthina (J. Agardh) Falkenberg, 1901. *Rhodomelaceen Neapel* ... p. 275.

Pterosiphonia cloiophylla (C. Agardh) Falkenberg, 1889: 448.

Pterosiphonia cloiophylla (C. Agardh) Falkenberg in Schmitz, 1889. *Flora, Jena* 72: 448. Falkenberg, 1901: 271.

Papenfuss, 1943. *Jl S. Afr. Bot.* 9: 89.

Rhodomela cloiophylla C. Agardh, 1822: 375.

Polysiphonia acanthina J. Agardh, 1863: 936.

Pterosiphonia acanthina (J. Agardh) Falkenberg, 1901: 275.

(Falkenberg (1901: 271) lists *Rytiphloea cloiophylla* J. Agardh and *Polysiphonia cloiophylla* J. Agardh as additional synonyms).

Pterosiphonia parasitica (Hudson) Falkenberg, 1901. *Rhodomelaceen Neapel* ... p. 265, pl. 2, fig. 3–9.

Conferva parasitica Hudson 1762: 604.

Polysiphonia parasitica (Hudson) Greville, 1824: 309.

Pterosiphonia stangeri (J. Agardh) Falkenberg, 1901. *Rhodomelaceen Neapel* ... p. 270.

Polysiphonia stangeri J. Agardh, 1863: 937.

Rytiphloea stangeri Harvey mscr.

Ptilophora diversifolia (Suhr) Papenfuss, 1940. *Bot. Notiser* 1940: 214, fig. 11.

Phyllophora diversifolia Suhr, 1840: 262. 'The record of Barton (1893, p. 175) of *Polyphacum Smithiae* and those of Barton (1896, p. 97) and Delf and Michell (1922, p. 104) of *Ptilophora spissa* are based on Flanagan's specimens of *Ptilophora diversifolia* (in Herb. Tyson, Dept. Botany, Univ. Cape Town)' direct quote from Papenfuss, 1940: 214.

Ptilophora pinnatifida J. Agardh, 1884. *Lunds Univ. Årsskr.* Afd. 2, 21: 79.

Beckerella rumpii (Dickinson) Fan et Papenfuss, 1961: 322.

Ptilophora spissa (Suhr) Kuetzing, 1847. *Bot. Ztg.* 5(2): 25.

Papenfuss, 1940: *Bot. Notiser* 1940: 214.

Phyllophora spissa Suhr, 1840: 262.

Ptilophora spissa sensu Barton, 1896: 197. This record is based on Flanagan's specimens of **Ptilophora diversifolia** – see Papenfuss (1940: 214).

Ptilota cryptocarpa Holmes, 1894. *Ann. Bot.* 8(31): 337, pl. 18, figs 8–15.

Dasyphila cryptocarpa (Holmes) Schmitz, 1896: 8.

Ptilota flaccida C. Agardh, 1822. *Species algarum* ... 1(2): 388.

Carpoblepharis flaccida (C. Agardh) Kuetzing, 1849: 690.

Ptilota pappeana J. Agardh, mscr.

Euptilota pappeana Kuetzing, 1849: 671.

Ptilota ? pinnatifolia Suhr, 1834. *Flora, Jena* 17(46): 732, pl. 2, fig. 18.

Dasyopsis pinnatifolia (Suhr) Schmitz, 1893: 231.

Ptilothamnion pluma (Dillwyn) Thuret in le Jolis, 1863: 118. A Stephenson (1948: 308) record from East London.

Pugetia harveyana (J. Agardh) Norris, 1964. *Botanica mar.* 7: 119, pl. 9, figs 46–50.

Kallymenia harveyana J. Agardh, 1844: 40.

Pugetia porphyroidea (Schmitz ex Holmes) Norris, 1964. *Botanica mar.* 7: 113, pls 7, 8.

Glaphrymenia porphyroidea Schmitz ex Holmes, 1894: 338.

Pycnophycus brassicaeformis Kuetzing, 1860. *Tabulae phycologicae* ... 10: 9, pl. 23, fig. 1.

Bifurcaria brassicaeformis (Kuetzing) Barton, 1893: 82.

Pycnophycus laevigatus Kuetzing, 1860. *Tabulae phycologicae* ... 10: 9, pl. 22, fig. 2.

Bifurcariopsis capensis (Areschoug) Papenfuss, 1940: 212.

Pylaiella antillarum (Grunow) De Toni, 1895. *Sylloge algarum* ... 3: 535.

Bachelotia antillarum (Grunow) Gerloff, 1959: 38.

Pylaiella fulvescens (Schousboe) Bornet, 1889. *Rev. gén. Bot.* 1: 8.

Bachelotia antillarum (Grunow) Gerloff, 1959: 38.

Ralfsia ceylanica Harvey ex Barton, 1903. *J. Linn. Soc. Bot.* 35: 477, pl. 13, fig. 1–4.

Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss (1943: 467).

Ralfsia expansa (J. Agardh) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 63.

Myrionema ? expansum J. Agardh, 1847: 7.

Ralfsia major Kuetzing, 1859. *Tabulae phycologicae* ... 9: 32, pl. 77, fig. 4.

Peyssonnelia capensis Montagne, 1847: 177.

Ralfsia verrucosa (Areschoug) J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 62.

Cruoria verrucosa Areschoug, 1843: 264.

Reinboldia polycarpa Schmitz in Engler and Prantl, 1897. *Nat. Pflanz.*, 1, 2: 351.

Reinboldiella poeppigianum (Grunow) Feldman et Mazoyer, 1937. *Bull. Soc. Hist. nat. Afr. Nord.* 28: 213. (See Hommersand, 1963. *Univ. Calif. Publs Bot.* 35(2): 225).

Ceramium poeppigianum Grunow, 1868: 64.

Rhabdonia natalensis Reinbold in Tyson, 1912. *J. Bot., Lond.* 50: 199.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 281.

Solieria natalensis (Reinbold) Boergesen, 1943: 40 (only as to binomial – see Papenfuss (1968: 281).

Rhizoclonium ambiguum (Hooker f. et Harvey) Kuetzing, 1849: 387.

Conferva ambigua Hooker f. et Harvey, 1845: 295.

Rhizoclonium hookeri Kuetzing, 1849: 383.

Rhizoclonium arenosum (Carmichael ex Harvey) Kuetzing, 1849: 387. A Barton record, see Delf and Michell 1921: 93.

Rhizoclonium hookeri Kuetzing, 1849. *Species algarum,* p. 383.

Rhizoclonium ambiguum (Hooker f. et Harvey) Kuetzing, 1849: 387.

Rhizoclonium riparium (Roth) Harvey, 1849. *Phycologia britannica*, pl. 238.

Conferva riparia Roth, 1797–1806: 216.

Rhizoclonium tortuosum Kuetzing, 1845. *Phycologia germanica*, p. 205. A Barton (1893: 54) record, see Delf and Michell (1921: 93).

Rhizophyllum enervium Reinsch, 1874/1875. Hohenacker No. 400. (Recorded from South Africa but I can find no recent information on this species).

Rhodomela botryocarpa sensu Delf and Michell, 1921. *Ann. Bolus Herb.* 3(2): 114.

Caulacanthus ustulatus (Turner) Kuetzing, 1843: 395. Papenfuss (1943: 86) notes that specimens listed under the name *Rhodomela botryocarpa* by Delf and Michell (1921: 114) should be known as *Caulacanthus divaricatus*, but as this species is now known as *Caulacanthus ustulatus*, it has been thought wiser to include the reference to *Rhodomela botryocarpa* under *Caulacanthus ustulatus*.

Rhodomela cloiophylla C. Agardh, 1822. *Species algarum* ... 1(2): 375.

Pterosiphonia cloiophylla (C. Agardh) Falkenberg, 1889: 448.

Rhodomela crassicaulis Harvey, *Ceylon algae* No. 8 (nomen nudum); Svedelius, 1906, p. 191, figs 3 and 9, pl. 6, fig. A.

Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 269.

Chondria armata (Kuetzing) Okamura, 1907: 69.

Rhodomela radicans Montagne, 1840. *Ann. Sci. nat. Bot.* 13: 199, pl. 5, fig. 3.

Bostrychia radicans (Montagne) Montagne, 1850: 286.

Rhodomelopsis africana Pocock, 1953. *J. Linn. Soc. Lond., Bot.* 55: 34, text figs 1; pl. 5, figs A–F; pl. 6, figs A–C.

Rhodomenia discigera J. Agardh, 1841. *Linnaea* 15(1): 13.

Thamnophyllis discigera (J. Agardh) Norris, 1964: 110.

Rhodomenia dregeana Suhr, 1840. *Flora, Jena* 23(17): 263.

Epymenia obtusa (Greville) Kuetzing, 1849: 787.

Rhodophyllis capensis Kuetzing, 1849. *Species algarum,* p. 786.

Rhodophyllis reptans (Suhr) Papenfuss, 1956: 71.

Rhodophyllis reptans (Suhr) Papenfuss, 1956. *Jl S. Afr. Bot.* 22(2): 71.

Halymenia reptans Suhr, 1834: 735.

Rhodophyllis capensis Kuetzing, 1849: 786.

Rhodymenia nigricans Harvey, 1847, pl. 46 (nomen nudum).

Ectoclinum kowiense Holmes, 1896: 349.

Rhodoseris laciniata Harvey, 1860. *Index gen. alg.*, p. 5.

Pollexfenia laciniata Harvey, 1844: 432.

Rhodosiphonia californica Hollenberg, 1943. *Am. J. Bot.* 30: 573.

Ophidocladus simpliciusculus (Crouan) Falkenberg, 1897: 461.

Rhodymenia capensis J. Agardh, 1894. *Lunds Univ. Årsskr.* Afd. 2, 5(7): 78.

Epymenia capensis (J. Agardh) Papenfuss, 1940: 222.

Rhodymenia discigera J. Agardh, 1841. *Linnaea* 15: 13.

Thamnophyllis discigera (J. Agardh) Norris, 1964: 110.

Rhodymenia natalensis Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 13, pl. 5, fig. 13.

Rhodymenia nigricans Harvey, 1847. *Nereis australis* ... pl. 46 (nomen nudum) – see Papenfuss (1956: 71).

Rhodophyllis reptans (Suhr) Papenfuss, 1956: 71.

Rhodymenia palmetta (Esper) Greville, 1830. *Algae britannicae*, p. 88, pl. xii.

Rhodymenia pseudopalmata (Lamouroux) Silva, 1952: 265.

Rhodymenia pseudopalmata (Lamouroux) Silva, 1952. *Univ. Calif. Publs Bot.* 25: 265.

Sparling, 1957. *Univ. Calif. Publs Bot.* 29: 356.

Fucus pseudopalmatus Lamouroux, 1805: 29. See Silva (1952: 265) for discussion.

Rhodymenia palmetta (Esper) Greville, 1830: 88.

Rhodymenia tripinnata Hering, 1846: 209 (as *Rhodhymenia tripinnata*).

Chondrococcus tripinnatus (Hering) Delf et Michell, 1921: 118.

Rosenvingea stellata Boergesen, 1928. *Dansk. bot. Ark.* 5(6): 1.

Iyengaria stellata (Boergesen) Boergesen, 1939: 92.

Rytiphloea cloiophylla J. Agardh is listed by Falkenberg (1901: 271) as a synonym of *Pterosiphonia cloiophylla* (C. Agardh) Falkenberg. See Papenfuss (1943: 89).

Rytiphloea stangeri Harvey mscr.

Pterosiphonia stangeri (J. Agardh) Falkenberg, 1901: 270.

Rytiphloea truncata Kuetzing. A Barton (1893) record.

Sarcodia capensis J. Agardh, 1884. *Lunds Univ. Årsskr.* Afd. 2, 21: 65.

Anatheca dentata (Suhr) Papenfuss 1940: 218.

Sarcomenia intermedia Grunow, 1868. *Algen Novara* ... p. 92, pl. 11, fig. 1.

Platysiphonia intermedia (Grunow) Papenfuss, 1944: 206.

Sarcomenia miniata (C. Agardh) J. Agardh, 1863. *Species genera et ordines algarum* ... p. 1260.

Platysiphonia miniata (C. Agardh) Boergesen, 1931: 21.

Sarcomenia ? sandersonii Harvey ex J. Agardh, 1896. *Lunds Univ. Årsskr.* N.F., Afd. 2, 7(2): 137.

Dasyopsis pinnatifolia (Suhr) Schmitz, 1893: 231.

Sargassum affine J. Agardh, 1847. *K. svenska Vet.-Akad. Förh.* 4: 8. A Barton (1893: 83) record, listed in Delf and Michell (1921: 100).

Sargassum bacciferum (Turner) C. Agardh, 1821. *Species algarum* ... 1(1): 6. A Barton (1893: 83) record, listed in Delf and Michell (1921: 100).

Sargassum crassifolium J. Agardh, 1848. *Species genera et ordines algarum* ... 1: 326.

Sargassum elegans Suhr, 1840. *Flora, Jena* 23: 257.

Sargassum heterophyllum (Turner) C. Agardh, 1820. *Species algarum* ... 1(1): 21.

Papenfuss, 1940. *Symb. bot. upsal.* 4(3): 9.

Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 171.

Fucus heterophyllus Turner, 1809: 62, pl. 92 (pro parte).

Fucus acinarius Thunberg, 1794: 181.

Fucus incisifolius Turner, 1819: 39, pl. 214.

Sargassum incisifolium (Turner) C. Agardh, 1820: 14.

Sargassum ilicifolium (Turner) J. Agardh, 1851: 11. A Stephenson (1948: 300) record from Natal.

Sargassum incisifolium (Turner) C. Agardh, 1820. *Species algarum* ... 1(1): 14.

Sargassum heterophyllum (Turner) C. Agardh, 1820: 21.

Sargassum incisifolium var. *nullipora* Barton, 1893. *J. Bot., Lond.* 31: 83. A Barton (1893: 83) record, listed by Delf and Michell (1921: 100).

Sargassum lendigerum (Linnaeus) C. Agardh, 1820. *Species algarum* ... 1(1): 9. A Barton (1893) record, listed by Delf and Michell (1921: 100).

Sargassum linifolium (Turner) C. Agardh, 1820. *Species algarum* ... 1(1): 18. A Barton (1893: 83) record, listed by Delf and Michell (1921: 100).

Sargassum longifolium (Turner) C. Agardh, 1820. *Species algarum* ... 1(1): 17.

Papenfuss, 1940. *Symb. bot. upsal.* 4(3): 9.

Fucus longifolius Turner, 1809: 88, pl. 104 (excluding varieties).

Fucus loreus Thunberg, 1794: 181.

Fucus serratus Rudolphi, 1831: 172.

Anthophycus longifolius (Turner) Kuetzing, 1849: 605.

Carpophyllum longifolium (Turner) De Toni, 1895: 123.

Sargassum obovatum Harvey in Hooker and Walker-Arnott, 1830–41: 148.

Stephenson (1944, and 1948: 300) records this species from South Africa.

Sargassum pyriforme (Poiret) C. Agardh, 1824. *Systema algarum*, p. 298. A Barton (1893) record, listed by Delf and Michell (1921: 100).

Sargassum vulgare C. Agardh, 1820. *Species algarum* ... 1(1): 3. A Barton (1893: 83) record, listed by Delf and Michell (1921: 100).

Sargassum vulgare C. Agardh *β tenuifolium* C. Agardh, 1820. *Species algarum* ... 1(1): 4. A Barton (1893: 83) record, listed by Delf and Michell (1921: 100).

Scaberia agardhii Greville – a Barton (1893: 83) record, listed in Delf and Michell (1921: 99).

Schizoglossum bartlingianum Kuetzing, 1849. *Species algarum*, p. 870 (with respect to synonym *Nitophyllum deformatum* Suhr only).

Acrosorium deformatum (Suhr) Papenfuss, 1943: 90.

Schizymenia apoda (J. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 175.

Platymenia apoda J. Agardh, 1848: 47.

Schizymenia carnosa (J. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 173.

Pachymenia carnosa (J. Agardh) J. Agardh, 1876: 145.

Schizymenia erosa (J. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 176. A Barton (1893) record, listed in Delf and Michell (1921: 118).

Platymenia erosa J. Agardh, 1848: 48.

Schizymenia obovata (J. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 175.

Platymenia undulata var. *obovata* J. Agardh, 1849: 88.

Schizymenia undulata (J. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 175. [non *Grateloupia undulata* J. Agardh, 1876: 155].

Grateloupia longifolia Kylin, 1938: 9.

Scinaia furcellata sensu Barton, 1893: 144; sensu Delf and Michell, 1921: 102.

Pseudogloiophloea capensis (Setchell) Levring in Svedelius, 1956: 13.

Scinaia salicornioides (Kuetzing) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(2): 423.

Ginnania salicornioides Kuetzing, 1849: 716.

Scytosiphon lomentaria (Lyngbye) Link, 1833. *Handbuch* 3: 232.

Chorda lomentaria Lyngbye, 1819: 74.

Siphonocladus delphinii Hariot, 1902. *Bull. Mus. natn. Hist. nat. Paris* 8: 470.

Chamaedoris delphinii (Hariot) Feldmann et Boergesen, 1940: 16.

Siphonocladus ? tropicus (Crouan) J. Agardh; reported from Inhaca in MacNae & Kalk (1958).

Sirophysalis muricata (C. Agardh) Kuetzing, 1843. *Phycologia generalis* ... p. 368.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Sirophysalis trinodis (Forsskål) Kuetzing, 1849. *Species algarum*, p. 603.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Sirophysalis trinodis var. *confluens* (C. Agardh) Kuetzing, 1849. *Species algarum*, p. 603.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Sirophysalis trinodis var. *enodis* Kuetzing, 1860. *Tabulae phycologicae* ... 10: 22, pl. 59, fig. 1.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Sirophysalis virgata (Endlicher et Diesing) Kuetzing, 1849. *Species algarum*, p. 603.

Cystoseira trinodis (Forsskål) C. Agardh, 1820: 67.

Solenia bulbosa Suhr, 1839. *Flora, Jena* 22: 72, pl. 4, fig. 46.

Enteromorpha bulbosa (Suhr) Montagne, 1846: 3.

Solieria natalensis (Reinbold) Boergesen, 1943. *K. dansk. Vidensk. Selsk. Biol. Meddel.* 19(1): 40. ('only as to binomial' – Papenfuss (1968: 281).

Rhabdonia natalensis Reinbold in Tyson, 1912: 199. (See Papenfuss (1968: 281) for discussion).

Spatoglossum asperum J. Agardh, 1894: 36. A Tyson record from the Bluff, Durban.

Spatoglossum nigrescens (Sonder) Kuetzing, 1849. *Species algarum*, p. 561.

Lobophora variegata (Lamouroux) Womersley, 1967: 221.

Spatoglossum variabile Fig. et De Not. A Stephenson (1948: 300) record from Natal.

Spatoglossum variegatum (Lamouroux) Kuetzing, 1849. *Species algarum*, p. 560.

Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss (1943: 467).

Spermothamnion schmitzianum Barton, 1893. *J. Bot., Lond.* 31: 138.

Sphacelaria funicularis Montagne, 1842. *Prodromus generum* ... p. 13.

Halopteris funicularis (Montagne) Sauvageau, 1904: 393.

Sphacelaria furcigera Kuetzing, 1855. *Tabulae phycologicae* ... 5: 27, pl. 90, fig. 2. A Barton (1893: 111) record, listed in Delf and Michell, (1921: 97).

Sphacelaria globifera Areschoug, 1851. *Phyceae capenses*, p. 20; 1854: 364.

Halopteris funicularis (Montagne) Sauvageau, 1904: 393.

Sphacelaria paniculata sensu Krauss, 1846. *Flora, Jena* 29: 213; sensu J. Agardh, 1848: 36; sensu Areschoug, 1851: 19 [non *Sphacelaria paniculata* Suhr, 1840: 278].

Halopteris funicularis (Montagne) Sauvageau, 1904: 393.

Sphacelaria scoparia sensu Harvey, 1838. *The genera of South African Plants*, p. 396, text to pl. 37; sensu Drège, 1843: 111, 223 (on p. 111 in error as *Sphaerococcus scoparius*); sensu Areschoug, 1851: 21 (cited from Drège and Harvey) [non *Halopteris scoparia* (L.) Sauvageau].

Halopteris funicularis (Montagne) Sauvageau, 1904: 393.

Sphacelaria squamulosa Suhr, 1834. *Flora, Jena* 17: 738.

Phloiocaulon squamulosum (Suhr) Geyler, 1866: 509.

Sphacelaria tribuloides Meneghini, 1840. *Lettera al Dott. J. Corinaldi*, p. 2. A Barton (1893: 110) record, listed in Delf and Michell (1921: 97).

Sphaerococcus (Gelidium) aculeatus Hering, 1841. *Ann. Mag. nat. Hist.* 8: 91 [non (Linnaeus) Stackhouse, 1797: 24].

Gracilaria aculeata (Hering) Papenfuss, 1966: 100.

Sphaerococcus canaliculatus Kuetzing, 1868, pl. 82.

Gracilaria canaliculata (Kuetzing) Sonder, 1871: 56.

Sphaerococcus cornutus C. Agardh, 1822. *Species algarum* ... 1(2): 293.

Plocamium cornutum (Turner) Harvey, 1847: 123.

Sphaerococcus fimbriatus C. Agardh, 1822. *Species algarum* ... 1(2): 299.

Calliblepharis fimbriata (C. Agardh) Kuetzing, 1843: 404.

Sphaerococcus flaccidus Suhr, 1834. *Flora, Jena* 17: 728, pl. 1, fig. 11.

Delisea flaccida (Suhr) Papenfuss, 1940: 214.

Sphaerococcus fragilis C. Agardh, 1822. *Species algarum* ... 1(2): 253.

Trematocarpus fragilis (C. Agardh) De Toni, 1900: 419.

Sphaerococcus gelatinosus Nees, 1824, *Flora, Jena,* p. 273.

Gigartina stiriata (Turner) J. Agardh, 1851: 277.

Sphaerococcus heringii Kuetzing, 1849. *Species algarum,* p. 775.

Gracilaria aculeata (Hering) Papenfuss, 1966: 100.

Sphaerococcus lambertii sensu Suhr, 1834. *Flora, Jena* 17: 728.

Chondrococcus hornemannii (Lyngbye) Schmitz, 1896: 140.

Sphaerococcus mirabilis C. Agardh, 1824. *Systema algarum* ... p. 230.

Heringia mirabilis (C. Agardh) J. Agardh, 1842: 68.

Sphaerococcus musciformis var. *armatus* C. Agardh, 1822. *Species algarum* ... 1(2): 328.

Hypnea spicifera (Suhr) Harvey, 1847: 14.

Sphaerococcus pristoides C. Agardh, 1822. *Species algarum* ... 1(2): 234.

Gelidium pristoides (Turner) Kuetzing, 1843: 407.

Sphaerococcus stiriatus C. Agardh, 1822. *Species algarum* ... p. 269.

Gigartina stiriata (Turner) J. Agardh, 1851: 277.

Sphaerococcus (?) tripinnatus (Hering) Kuetzing, 1849: 783.

Chondrococcus tripinnatus (Hering) Delf et Michell, 1921: 118.

Sphaerococcus vermicularis C. Agardh, 1822. *Species algarum* ... 1(2): 311.

Gymnogongrus vermicularis (C. Agardh) J. Agardh, 1851: 323.

Sphaerococcus vittatus C. Agardh, 1822. *Species algarum* ... 2: 233.

Suhria vittata (Linnaeus) J. Agardh, 1842: 68.

Spirhymenia serrata Harvey, 1847. *Nereis australis* ... p. 27, pl. 7.

Vidalia serrata (Suhr) J. Agardh, 1863: 1125.

Splachnidium rugosum (Linnaeus) Greville, 1830. *Algae britannicae*, p. 36.

Ulva rugosa Linnaeus, 1771: 311. Agardh (1848: 186) gives further synonyms which have bot been listed here.

Sporochnus herbaceus var. *firma* C. Agardh, 1824. *Systema algarum*, p. 261 (in part).

Desmarestia firma Skottsberg, 1907: 21.

Spyridia aculeata (C. Agardh ex Decaisne) Kuetzing, 1843. *Phycologia generalis* ... p. 377.

Spyridia hypnoides (Bory) Papenfuss, 1968: 281.

Spyridia cupressina (Harvey) Kuetzing, 1849. *Species algarum*, p. 668.

Bindera cupressina Harvey in Kuetzing, 1862: pl. 53.

Spyridia ericoides (Hering) Kuetzing, 1847. *Bot. Ztg.* 5: 37.

Spyridia hypnoides (Bory) Papenfuss, 1968: 281.

Spyridia filamentosa (Wulfen) Harvey in Hooker, 1833. *British Flora*, 2(1): 337. (Pocock, 1958: 27, records this species from Inhaca).

Spyridia glomerulifera (J. Agardh) Bracebridge, see Wilson in Barton, 1896. *J. Bot., Lond.* 34: 460.

Perischelia glomulifera (J. Agardh) J. Agardh, 1897: 34.

Spyridia horridula Schmitz ex J. Agardh, 1897. *Lunds Univ. Årsskr.* N.F., Afd. 2, 8(9): 15.

Spyridia hypnoides (Bory) Papenfuss, 1968. *Jl S. Afr. Bot.* 34(5): 281.

Thamnophora hypnoides Bory in Bélanger, 1834: 175.

Spyridia insignis (J. Agardh) J. Agardh, 1851: 344.

Bindera insignis J. Agardh, 1841: 37.

Spyridia ericoides (Hering) Kuetzing, 1847: 37.

Alsidium ericoides Hering, 1841: 91.

Spyridia tetracantha Kuetzing, 1862: 16, pl. 52, figs d and e.

Spyridia aculeata (C. Agardh ex Decaisne) Kuetzing, 1843: 377.

Ceramium aculeatum C. Agardh ex Decaisne, 1841: 179.

Spyridia insignis (J. Agardh) J. Agardh, 1851. *Species genera et ordines algarum* ... 2(2): 344.

Spyridia hypnoides (Bory) Papenfuss, 1968: 281.

Spyridia plumosa Schmitz ex J. Agardh, 1897. *Lunds Univ. Årsskr.* N.F., Afd. 2, 8(9): 14. (See Delf and Michell (1921: 116).

Spyridia squalida J. Agardh, 1876. *Species genera et ordines algarum* ... 3(1): 270. A Barton (1893) record, listed in Delf and Michell (1921: 116). A misidentification according to G.F. Papenfuss (personal communication, 1970).

Spyridia tetracantha Kuetzing, 1862. *Tabulae phycologicae* ... 12: 16, pl. 52, figs d and e.

Spyridia hypnoides (Bory) Papenfuss, 1968: 281.

Stilophora flanaganii Kylin, 1940. *Lunds Univ. Årsskr.* N.F., Avd. 2, 36(9): 53, pl. 8, fig. 21.

Stoecheospermum polypodioides (Lamouroux) J. Agardh, 1851: 100.

Dictyota polypodioides Lamouroux, 1822: 15.

Stoechospermum suhrii Kuetzing, 1859. *Tabulae phycologicae* ... 9: 17, pl. 41, fig. 2.

Dilophus suhrii (Kuetzing) Papenfuss, 1940: 206.

Strebloclad ia corymbifera (C. Agardh) Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 20.

Polysiphonia corymbifera (C. Agardh) Harvey, 1847: 54 (See Papenfuss (1968: 279).

Hutchinsia corymbifera C. Agardh, 1828: 90.

Strebloclad ia fasciculifera (Kuetzing) Falkenberg, 1901. *Rhodomelaceen Neapel* ... p. 353, pl. 20, fig. 11–13; pl. 7, fig. 19.

Tayloriella tenebrosa (Harvey) Kylin, 1938: 18.

Streblocladia tenuissima Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55: 40, text fig. 3 and 5, pl. 6, fig. D; pl. 8, figs A–F.

Streblonema codii Barton, 1896. *J. Bot., Lond.* 34: 194, fig. 1.

Stromatocarpus parasiticus Falkenberg in Engler and Prantl, 1897. *Nat. Pflanz.* 1(2): 478.
Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 55(356): 55.

Struvea anastomosans (Harvey) Piccone et Grunow ex Piccone, 1884. *Alghei crociera del Corsaro alle Isole Madera e Canarie*, p. 20, figs 1 and 2.
Cladophora anastomosans Harvey, 1854: 565.

Stypocaulon funiculare (Montagne) Kuetzing in Reinke, 1891: 22; Barton, 1893: 111; De Toni, 1895: 517 (for synonyms or misidentifications based on South African material in connection with **Halopteris funicularis** (Montagne) Sauvageau see Papenfuss (1956: 66).

Stypocaulon paniculatum sensu Hohenacher, 1854. *Algae marinae siccatae*, 4, no. 154; sensu Magnus, 1873: 142, pl. 2, fig. 42: sensu Barton, 1893: 111 (cited from Krauss); sensu De Toni, 1895: 516 (cited from J. Agardh). [Non *Sphacelaria paniculata* Suhr] . See Papenfuss (1956: 67) for synonyms or misidentifications in connection with **Halopteris funicularis** (Montagne) Sauvageau, 1904: 393.

Stypocaulon scoparium sensu Kuetzing, 1849. *Species algarum*, p. 466 (cited from Harvey): sensu Barton, 1893: 111; sensu De Toni, 1895: 518 (cited from Kuetzing). [Non *Halopteris scoparia* (Linnaeus) Sauvageau, cf. Sauvageau, 1904: 376] .
Halopteris funicularis (Montagne) Sauvageau, 1904: 393.

Stypopodium fissum Kuetzing, 1859. *Tabulae phycologicae* ... 9: 25, pl. 64, fig. 1a–c.
Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss, 1943: 467).

Stypopodium laciniatum Kuetzing, 1859. *Tabulae phycologicae* ... 9: 26, pl. 64, fig. 2a–c.
Lobophora variegata (Lamouroux) Womersley, 1967: 221 (refer Papenfuss, 1943: 467).

Stypopodium lobatum (C. Agardh) Kuetzing, 1859. *Tabulae phycologicae* ... 9: 25, pl. 63, fig. 1.
Stypopodium zonale (Lamouroux) Papenfuss, 1940: 205.

Stypopodium zonale (Lamouroux) Papenfuss, 1940. *Bot. Notiser*, 1940: 205.
Fucus zonalis Lamouroux, 1805: 38, pl. 25, fig. 1.
Zonaria zonata C. Agardh, 1817: 20.
Zonaria zonalis Howe in Britton, 1918: 507.
Zonaria lobata C. Agardh, 1824: 265.
Stypopodium lobatum Kuetzing, 1859: 25, pl. 63, fig. 1.

Suhria pristoides J. Agardh, 1851. *Species genera et ordines algarum* ... 2(1): 479.
Gelidium pristoides (Turner) Kuetzing, 1843: 407.

Suhria vittata (Linnaeus) J. Agardh, 1842: *Algae maris mediterranei* ... p. 68; 1851. *Species genera et ordines algarum* ... 2(2): 480.
De Toni, 1897. *Sylloge algarum* ... 4: 164 gives the following synonyms:
Fucus vittatus Linnaeus, 1767: 718.
Sphaerococcus vittatus C. Agardh, 1822: 233.
Phyllophora vittata Greville, 1830: 56.
Gelidium vittatum Kuetzing, 1843: 407.
Dawsonia vittata Bory in Bélanger, 1834: 171.
Fucus ornatus Linnaeus, 1771: 312.
Fucus ciliatus Esper, 1797–1799, pl. 4, figs 1, 2, 4.
Fucus caulescens Gmelin, 1768: 173, pl. 20, fig. 2.
Delesseria caulescens Lamouroux, 1813: 38.
N.B. Papenfuss (1940: 12) gives only 3 synonyms for **Suhria vittata** (Linnaeus) J. Agardh. These are:
Fucus vittatus Linnaeus, 1767: 718.
Fucus ornatus Thunberg, 1794: 181 (in part); 1807–1820: 753 (in part).
Fucus ciliatus Thunberg, 1794: 181 (in part): 1807–1820: 753 (in part).

Suhria ? zollingeri sensu Grunow, 1867: 82 (pro parte, only as to material in hand – see Chiang (1970: 68).
Carpopeltis maillardii (Montagne et Millardet) Chiang, 1970: 68.

Syringocolax macroblepharis Reinsch, 1874–1875. *Contributions Alg. et Fungi*: 66. *Rhodophyceae,* pl. 55, pl. 57, fig. 2.
Martin et Pocock, 1953. *J. Linn. Soc. Lond. Bot.* 50(356): 53.

Taenioma macruorum Thuret in Bornet et Thuret, 1876. *Notes algol.*, fasc. 1: 69, pl. 25.
Taenioma nanum (Kuetzing) Papenfuss, 1952: 179.

Taenioma nanum (Kuetzing) Papenfuss, 1952. *Jl S. Afr. Bot.* 17(4): 179. Not a South African species, although recorded by Pocock (1958) from Inhaca.
Polysiphonia nana Kuetzing, 1849: 879; 1863: 10, pl. 29, figs e–f.
[Non *Polysiphonia nana* Harvey in Hooker, 1855: 228].
Taenioma macruorum Thuret in Bornet and Thuret, 1876: 69.

Taenioma perpusillum (J. Agardh) J. Agardh, 1863. *Species genera et ordines algarum* ... 2(3): 1257.
Papenfuss, 1944: *Madroño* 7: 206.
Polysiphonia perpusilla J. Agardh, 1848: 16.

Tayloriella tenebrosa (Harvey) Kylin, 1938. *Lunds Univ. Årsskr.* N.F., Avd. 2, 34(8): 18, fig. 9a–c.
Polysiphonia tenebrosa Harvey, 1847: 55.
Streblocladia fasciculifera (Kuetzing) Falkenberg, 1901: 353.

Tayloriella virgata (C. Agardh) Papenfuss, 1940. *Symbolae bot. upsal.* 4(3): 14.
Hutchinsia virgata C. Agardh, 1824: 157.
Polysiphonia virgata (C. Agardh) Sprengel, 1827: 350.
Fucus virgatus Thunberg. *Flora Cap.*: 754.
Carradoria virgata (C. Agardh) Kylin, 1956: 503.

Thamnocarpus cornutus Kuetzing, 1843. *Phycologia generalis*, pl. 59.

Plocamium cornutum (Turner) Harvey, 1847: 123.

Thamnocarpus ? glomuliferus J. Agardh, 1884. *Lunds Univ. Årsskr.* Afd. 2, 4(7): 6.

Perischelia glomulifera (J. Agardh) J. Agardh, 1897: 34.

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